




Lancaster Laboratories
Where quality is a science

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,


Elizabeth A. Smith
Senior Chemist



Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681



Lancaster Laboratories Sample No. WW 3821680

Collected: 05/16/2002 11:25 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29S-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29S SDG#: DCJ82-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method		Units	Dilution Factor
				Detection	Limit		
01754	Iron	7439-89-6	0.422	0.0350		mg/l	1
01758	Manganese	7439-96-5	0.0901	0.00050		mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41		mg/l	1
00202	Alkalinity to pH 4.5	n.a.	410.	0.41		mg/l	1
00216	Total Hardness	471-34-3	567.	2.1		mg/l	5
00219	Nitrite Nitrogen	14797-65-0	0.020 J	0.015		mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.09	0.040		mg/l	1
00229	Sulfite	14265-45-3	N.D.	0.77		mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	4.6	0.50		mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	94.	6.0		mg/l	4
04001	Chemical Oxygen Demand	n.a.	37.1 J	8.8		mg/l	1
08344	Ferrous Iron	n.a.	N.D.	0.0060		mg/L	1
09052	Ferric Iron (Calculation)	n.a.	0.42	0.035		mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.	1.0		ug/l	1
07108	Ethene	74-85-1	1.3 J	1.0		ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	5.		ug/l	10
05407	Toluene	108-88-3	N.D.	7.		ug/l	10
05415	Ethylbenzene	100-41-4	N.D.	8.		ug/l	10
06310	Xylene (Total)	1330-20-7	N.D.	8.		ug/l	10

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	05/29/2002 05:17	Donna R Sackett	1



Lancaster Laboratories, Inc
2425 New Holland Pike
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Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. WW 3821680

Collected: 05/16/2002 11:25 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29S-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29S	SDG#: DCJ82-01						
01758	Manganese	SW-846 6010B	1	05/29/2002 05:17	Donna R Sackett	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1	
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33	Susan A Engle	5	
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:15	Christian C Ehrhart	1	
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:28	Michelle A Hartman	1	
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1	
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 14:43	Timothy M Petree	1	
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00	Susan A Engle	4	
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1	
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	1	
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:06	Erika J Miller	1	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 18:07	Lisa A Johnson	1	
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/21/2002 15:49	Joel R Nace	10	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/21/2002 15:49	Joel R Nace	n.a.	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1	



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Lancaster Laboratories Sample No. WW 3821681

Collected: 05/16/2002 11:25 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29S-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z29SF SDG#: DCJ82-02

CAT	Analysis Name	CAS Number	As Received	As Received		Dilution
No.			Result	Method	Units	Factor
04001	Chemical Oxygen Demand	n.a.	43.5 J	Detection Limit	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution
No.				Date and Time		Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3821682

Collected: 05/16/2002 11:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29- SDG#: DCJ82-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
01754	Iron	7439-89-6	0.163	0.0350	mg/l	1
01758	Manganese	7439-96-5	0.0823	0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	413.	0.41	mg/l	1
00216	Total Hardness	471-34-3	580.	4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.021 J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.11	0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.	0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.						
00273	Total Organic Carbon	n.a.	4.3	0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	87.	6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	32.8 J	8.8	mg/l	1
08344	Ferrous Iron	n.a.	0.0071 J	0.0060	mg/L	1
09052	Ferric Iron (Calculation)	n.a.	0.16	0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	5.	ug/l	10
05407	Toluene	108-88-3	N.D.	7.	ug/l	10
05415	Ethylbenzene	100-41-4	N.D.	8.	ug/l	10
06310	Xylene (Total)	1330-20-7	N.D.	8.	ug/l	10

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.



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PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29- SDG#: DCJ82-03

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	05/29/2002 05:22	Donna R Sackett	1
01758	Manganese	SW-846 6010B	1	05/29/2002 05:22	Donna R Sackett	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33	Susan A Engle	10
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:16	Christian C Ehrhart	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:29	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 15:07	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	1
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:10	Erika J Miller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 18:17	Lisa A Johnson	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/21/2002 16:15	Joel R Nace	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/21/2002 16:15	Joel R Nace	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 3821683

Collected: 05/16/2002 11:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z29-F SDG#: DCJ82-04

CAT			As Received	As Received			
No.	Analysis Name	CAS Number	Result	Method	Detection	Units	Dilution
					Limit		Factor
04001	Chemical Oxygen Demand	n.a.	26.4 J		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT			Analysis				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst		Dilution
							Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle		1


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2216 Rev 9/11/00



Lancaster Laboratories Sample No. WW 3821684

Collected: 05/16/2002 11:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29I-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29I SDG#: DCJ82-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
01754	Iron	7439-89-6	0.303	0.0350	mg/l	1
01758	Manganese	7439-96-5	0.191	0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	347.	0.41	mg/l	1
00216	Total Hardness	471-34-3	537.	4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.016 J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.	0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.						
00273	Total Organic Carbon	n.a.	2.7	0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	152.	6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	9.4 J	8.8	mg/l	1
08344	Ferrous Iron	n.a.	0.27	0.0060	mg/L	1
09052	Ferric Iron (Calculation)	n.a.	0.036 J	0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	05/29/2002 05:28	Donna R Sackett	1



Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. WW 3821684

Collected: 05/16/2002 11:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:43

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29I-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29I	SDG#: DCJ82-05						
01758	Manganese	SW-846 6010B	1	05/29/2002 05:28	Donna R Sackett	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1	
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33	Susan A Engle	10	
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:18	Christian C Ehrhart	1	
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:30	Michelle A Hartman	1	
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1	
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 15:15	Timothy M Petree	1	
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30	Susan A Engle	4	
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1	
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	1	
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:14	Erika J Miller	1	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 18:28	Lisa A Johnson	1	
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/21/2002 16:40	Joel R Nace	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/21/2002 16:40	Joel R Nace	n.a.	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1	




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Page 1 of 1

Lancaster Laboratories Sample No. WW 3821685

Collected: 05/16/2002 11:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29I-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z29IF SDG#: DCJ82-06

CAT	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	20.1 J	8.8		mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1


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 717-656-2300 Fax 717-656-2681



Lancaster Laboratories Sample No. WW 3821686

Collected: 05/16/2002 12:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29D-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29D SDG#: DCJ82-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	3.54		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.248		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	386.		0.41	mg/l	1
00216	Total Hardness	471-34-3	503.		4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.019 J		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.85 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	86.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	9.4 J		8.8	mg/l	1
08344	Ferrous Iron	n.a.	3.73		0.030	mg/L	5
09052	Ferric Iron (Calculation)	n.a.	N.D.		0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	05/29/2002 05:33	Donna R Sackett	1



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Lancaster Laboratories Sample No. WW 3821686

Collected: 05/16/2002 12:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29D-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ29D	SDG#: DCJ82-07					
01758	Manganese	SW-846 6010B	1	05/29/2002 05:33	Donna R Sackett	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33	Susan A Engle	10
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:21	Christian C Ehrhart	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:31	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 15:39	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	5
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:25	Erika J Miller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 18:38	Lisa A Johnson	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/21/2002 17:05	Joel R Nace	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/21/2002 17:05	Joel R Nace	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1



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Lancaster Laboratories Sample No. WW 3821687

Collected: 05/16/2002 12:35 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ29D-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z29DF SDG#: DCJ82-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	17.9 J		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1


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Lancaster Laboratories Sample No. WW 3821688

Collected: 05/16/2002 15:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ27I-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27I SDG#: DCJ82-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	0.688		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.290		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	271.		0.41	mg/l	1
00216	Total Hardness	471-34-3	442.		4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.022 J		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.23		0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.07 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	146.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	N.D.		8.8	mg/l	1
08344	Ferrous Iron	n.a.	0.41		0.0060	mg/L	1
09052	Ferric Iron (Calculation)	n.a.	0.28		0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01754	Iron	SW-846 6010B	1	05/29/2002 05:39		Donna R Sackett	1
01758	Manganese	SW-846 6010B	1	05/29/2002 05:39		Donna R Sackett	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52		Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52		Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33		Susan A Engle	10
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:23		Christian C Ehrhart	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:33		Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30		Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 15:47		Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30		Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43		Susan A Engle	1



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Account Number: 10160

Submitted: 05/17/2002 09:05

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Reported: 05/30/2002 at 17:44

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Discard: 07/30/2002

Livonia MI 48153-7933

PZ27I-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27I	SDG#: DCJ82-09					
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	1
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:36	Erika J Miller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 18:48	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1



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Lancaster Laboratories Sample No. WW 3821689

Collected: 05/16/2002 15:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ27I-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z27IF SDG#: DCJ82-10

CAT	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	13.7 J		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3821690

Collected: 05/16/2002 16:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

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Reported: 05/30/2002 at 17:44

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Discard: 07/30/2002

Livonia MI 48153-7933

PZ27D-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27D SDG#: DCJ82-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	1.75		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.199		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	269.		0.41	mg/l	1
00216	Total Hardness	471-34-3	377.		4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.016 J		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.29 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	79.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	N.D.		8.8	mg/l	1
08344	Ferrous Iron	n.a.	1.85		0.024	mg/L	4
09052	Ferric Iron (Calculation)	n.a.	N.D.		0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01754	Iron	SW-846 6010B	1	05/29/2002 05:44	Donna R Sackett	1
01758	Manganese	SW-846 6010B	1	05/29/2002 05:44	Donna R Sackett	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33	Susan A Engle	10
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:24	Christian C Ehrhart	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:34	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/24/2002 15:55	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1



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Account Number: 10160

Submitted: 05/17/2002 09:05

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Reported: 05/30/2002 at 17:44

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Discard: 07/30/2002

Livonia MI 48153-7933

PZ27D-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27D	SDG#: DCJ82-11					
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	4
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:41	Erika J Miller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/23/2002 16:35	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1



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Lancaster Laboratories Sample No. WW 3821691

Collected: 05/16/2002 16:30 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

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Reported: 05/30/2002 at 17:44

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Discard: 07/30/2002

Livonia MI 48153-7933

PZ27D-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z27DF SDG#: DCJ82-12

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection Limit	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	13.7 J		8.8	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT			Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3821692

Collected: 05/16/2002 15:15 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

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Discard: 07/30/2002

Livonia MI 48153-7933

PZ27S-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27S SDG#: DCJ82-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01754	Iron	7439-89-6	1.05	Detection Limit	mg/l	1
01758	Manganese	7439-96-5	0.255	0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	264.	0.41	mg/l	1
00216	Total Hardness	471-34-3	399.	4.2	mg/l	10
00219	Nitrite Nitrogen	14797-65-0	0.016 J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.	0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.						
00273	Total Organic Carbon	n.a.	1.06 J	0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	135.	6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	N.D.	8.8	mg/l	1
08344	Ferrous Iron	n.a.	0.92	0.012	mg/L	2
09052	Ferric Iron (Calculation)	n.a.	0.13 J	0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01754	Iron	SW-846 6010B	1	05/29/2002 05:49		Donna R Sackett	1
01758	Manganese	SW-846 6010B	1	05/29/2002 05:49		Donna R Sackett	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 19:52		Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 19:52		Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/30/2002 11:33		Susan A Engle	10
00219	Nitrite Nitrogen	EPA 353.2	1	05/18/2002 09:28		Christian C Ehrhart	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/29/2002 11:35		Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30		Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/27/2002 07:47		Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/29/2002 06:30		Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43		Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3821692

Collected: 05/16/2002 15:15 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ27S-051602-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ27S	SDG#: DCJ82-13					
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/19/2002 02:45	Daniel S Smith	2
09052	Ferric Iron (Calculation)	calculation	1	05/29/2002 11:44	Erika J Miller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/23/2002 16:45	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/21/2002 12:50	Christine Conlin	1



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Lancaster Laboratories Sample No. WW 3821693

Collected: 05/16/2002 15:15 by BJE

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

PZ27S-051602-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z27SF SDG#: DCJ82-14

CAT	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	N.D.		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/21/2002 07:43	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3821694

Collected: 05/13/2002 00:00

Account Number: 10160

Submitted: 05/17/2002 09:05

DaimlerChrysler Corporation

Reported: 05/30/2002 at 17:44

PO Box 537933

Discard: 07/30/2002

Livonia MI 48153-7933

TB02127 Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

TB02- SDG#: DCJ82-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/21/2002 17:31	Joel R Nace	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/21/2002 17:31	Joel R Nace	n.a.



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Quality Control Summary

Client Name: DaimlerChrysler Corporation

Group Number: 807952

Reported: 05/30/02 at 05:45 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02138105101A Nitrite Nitrogen	Sample number(s): 3821680, 3821682 N.D.	.015	mg/l	101		90-110		
Batch number: 02138105101B Nitrite Nitrogen	Sample number(s): 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.015	mg/l	101		90-110		
Batch number: 02139834401A Ferrous Iron	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.006	mg/L	102		90-112		
Batch number: 02141112501A Sulfate (turbidimetric)	Sample number(s): 3821680 1.6 J	1.5	mg/l	94		90-110		
Batch number: 021411848002 Iron	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.035	mg/l	100		91-114		
Manganese	N.D.	.0005	mg/l	101		94-110		
Batch number: 02141400102A Chemical Oxygen Demand	Sample number(s): 3821680-3821693 99					95-107		
Batch number: 021420018A Ethane	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	1.	ug/l	107		80-120		
Ethene	N.D.	1.	ug/l	106		80-120		
Batch number: 02142020202A Alkalinity to pH 4.5	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 99					97-101		
Batch number: 02143022901A Sulfite	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.77	mg/l	87		68-103		
Batch number: 02144011112A Total Organic Carbon	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688 N.D.	.5	mg/l	98		85-115		
Batch number: 02144011112B Total Organic Carbon	Sample number(s): 3821690, 3821692 N.D.	.5	mg/l	98		85-115		
Batch number: 02149106102A Nitrate Nitrogen	Sample number(s): 3821680, 3821682 N.D.	.04	mg/l	103		90-110		
Batch number: 02149106102B Nitrate Nitrogen	Sample number(s): 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.04	mg/l	103		90-110		
Batch number: 02149112501A Sulfate (turbidimetric)	Sample number(s): 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 1.6 J	1.5	mg/l	95		90-110		
Batch number: 02150021601A Total Hardness	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 N.D.	.42	mg/l	102		98-107		
Batch number: T021411AA Benzene	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821694 N.D.	.5	ug/l	97	96	84-120	0	30
Toluene	N.D.	.7	ug/l	95	98	86-123	4	30
Ethylbenzene	N.D.	.8	ug/l	94	98	88-124	4	30
Xylene (Total)	N.D.	.8	ug/l	97	99	89-124	2	30

Sample Matrix Quality Control

MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
----	-----	--------	-----	-----	-----	-----	---------

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Page 2 of 3

Client Name: DaimlerChrysler Corporation

Group Number: 807952

Reported: 05/30/02 at 05:45 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 02138105101A Nitrite Nitrogen	Sample number(s): 3821680, 3821682 107		90-110			N.D.	N.D.	14 (1)	20
Batch number: 02138105101B Nitrite Nitrogen	Sample number(s): 3821684, 3821686, 3821688, 3821690, 3821692 82*		90-110			0.016 J	0.016 J	0 (1)	20
Batch number: 02139834401A Ferrous Iron	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 104 102		40-149	2	5	3.73	3.76	1	20
Batch number: 02141112501A Sulfate (turbidimetric)	Sample number(s): 3821680 99 100		69-124	1	4	109.	106.	3	4
Batch number: 021411848002 Iron	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 100 93		75-125	5	20	0.223	0.241	7 (1)	20
Manganese	99 98		75-125	1	20	0.0031 J	0.0030 J	3 (1)	20
Batch number: 02141400102A Chemical Oxygen Demand	Sample number(s): 3821680-3821693 99 99		82-111	0	2	8,200.	7,900.	4	4
Batch number: 021420018A Ethane	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 110 105		74-121	5	20				
Ethene	120 116		73-133	4	20				
Batch number: 02142020202A Alkalinity to pH 8.3	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 93 96		64-130	2	2	N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5						189.	190.	1	4
Batch number: 02143022901A Sulfite	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 80 79		29-104	1	20	N.D.	N.D.	200* (1)	20
Batch number: 02144011112A Total Organic Carbon	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688 95		73-128			4.6	4.5	0 (1)	3
Batch number: 02144011112B Total Organic Carbon	Sample number(s): 3821690, 3821692 94		73-128			1.29 J	1.09 J	17* (1)	3
Batch number: 02149106102A Nitrate Nitrogen	Sample number(s): 3821680, 3821682 98		90-110			0.041 J	N.D.	57* (1)	3
Batch number: 02149106102B Nitrate Nitrogen	Sample number(s): 3821684, 3821686, 3821688, 3821690, 3821692 101		90-110			N.D.	N.D.	0 (1)	3
Batch number: 02149112501A Sulfate (turbidimetric)	Sample number(s): 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 96 94		69-124	2	4	146.	142.	3	4
Batch number: 02150021601A Total Hardness	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821688, 3821690, 3821692 101 102		93-115	0	2	221.	223.	1	4
Batch number: T021411AA Benzene	Sample number(s): 3821680, 3821682, 3821684, 3821686, 3821694 100		78-134						
Toluene	100		78-133						
Ethylbenzene	98		82-134						
Xylene (Total)	100		81-136						

Surrogate Quality Control

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 021420018A

Propene

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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Quality Control Summary

Page 3 of 3

Client Name: DaimlerChrysler Corporation
Reported: 05/30/02 at 05:45 PM

Group Number: 807952

Surrogate Quality Control

3821680	96
3821682	92
3821684	91
3821686	87
3821688	94
3821690	102
3821692	97
Blank	103
LCS	100
MS	96
MSD	95

Limits: 61-125

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: T021411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3821680	98	93	96	94
3821682	98	93	93	93
3821684	98	93	92	93
3821686	100	95	95	93
3821694	100	93	93	91
Blank	97	92	93	93
LCS	94	94	99	96
LCSD	93	93	99	99
MS	94	93	98	97

Limits: 86-118

80-120

88-110

86-115

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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TABLE ?

FIELD DATA
DAYTON THERMAL PRODUCTS
DAYTON, OHIO

Sample Location	PZ-37S	PZ-37I	PZ-37D	PZ-34S	PZ-34I
Sample ID	PZ37S-051502-BE	PZ37I-051502-BE	PZ37D-051502-BE	PZ34S-051502-BE	PZ34I-051502
Sample Date	5/15/2002	5/15/2002	5/15/2002	5/15/2002	5/15/2002

Parameter					
pH (Units)	7.58	6.06	7.53	7.63	6.08
Specific Conductivity (µs/cm)	996	1,236	1,020	1,076	1,103
Dissolved Oxygen (mg/L)	2.88	0.26	1.71	0.55	0.35
Temperature (°C)	15.91	16.54	16.22	15.01	15.19
Flow Rate (mL/min)	300	400	300	400	400

Sample Location	PZ-34D	PZ-29S	PZ-29I	PZ-29D	PZ-27S
Sample ID	PZ34D-051502-BE	PZ29S-051602-BE	PZ29I-051602-BE	PZ29D-051602-BE	PZ27S-051602
Sample Date	5/15/2002	5/16/2002	5/16/2002	5/16/2002	5/16/2002

Parameter					
pH (Units)	7.55	6.00	7.68	6.09	7.78
Specific Conductivity (µs/cm)	1,090	1,182	1,065	1,108	718
Dissolved Oxygen (mg/L)	0.17	0.88	0.22	0.20	0.22
Temperature (°C)	15.10	15.32	15.76	15.75	16.01
Flow Rate (mL/min)	400	400	400	400	400

TABLE ?

**FIELD DATA
DAYTON THERMAL PRODUCTS
DAYTON, OHIO**

Sample Location	PZ-27I	PZ-27D	PZ-8S	PZ-8I	PZ-8D
Sample ID	PZ27I-051602-BE	PZ27D-051602-BE	PZ8S-052002-BE	PZ8I-052002-BE	PZ8D-052002-BE
Sample Date	5/16/2002	5/16/2002	5/20/2002	5/20/2002	5/20/2002
Parameter					
pH (Units)	6.13	7.70	7.59	7.81	6.15
Specific Conductivity (µs/cm)	751	716	1,253	618	1,215
Dissolved Oxygen (mg/L)	0.26	0.15	2.63	0.22	0.21
Temperature (°C)	16.18	15.31	17.43	18.65	17.66
Flow Rate (mL/min)	375	400	300	400	325

Sample Location	PZ-12I	PZ-12D	MWA-6	MWB-2	MWC-2
Sample ID	PZ12I-052002-BE	PZ12D-052002-BE	MWA6-052002-BE	MWB2-052102-BE	MWC2-052102-BE
Sample Date	5/20/2002	5/20/2002	5/20/2002	5/21/2002	5/21/2002
Parameter					
pH (Units)	7.53	6.11	6.05	6.16	7.84
Specific Conductivity (µs/cm)	1,075	1,208	1,274	1,214	751
Dissolved Oxygen (mg/L)	0.89	0.37	0.18	0.22	0.20
Temperature (°C)	18.83	18.20	19.77	16.22	16.16
Flow Rate (mL/min)	400	400	450	400	400

TABLE ?

FIELD DATA
DAYTON THERMAL PRODUCTS
DAYTON, OHIO

Sample Location	MW-18S	MWB-1	MWC-1	MWA-2	PZ-16D
Sample ID	MW18S-052102-BE	MWB1-052102-BE	MWC1-052102-BE	MWA2-052102-BE	PZ16D-052102-BE
Sample Date	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002
Parameter					
pH (Units)	7.72	6.16	7.78	6.15	7.50
Specific Conductivity (µs/cm)	765	800	734	811	1,286
Dissolved Oxygen (mg/L)	1.67	0.19	0.22	0.13	0.24
Temperature (°C)	15.71	15.19	15.17	18.49	17.66
Flow Rate (mL/min)	300	350	350	375	300

Sample Location	MWA-5	PZ-13I
Sample ID	MWA5-052102-BE	PZ13I-052102-BE
Sample Date	5/21/2002	5/21/2002
Parameter		
pH (Units)	6.08	6.02
Specific Conductivity (µs/cm)	1,334	997
Dissolved Oxygen (mg/L)	0.59	0.18
Temperature (°C)	18.60	17.63
Flow Rate (mL/min)	400	400



ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 807755. Samples arrived at the laboratory on Thursday, May 16, 2002. The PO# for this group is N99C403749-B.

Client Description

PZ37I-051502-BE Grab Water Sample
PZ37I-051502-BE Filtered Grab Water Sample
PZ37D-051502-BE Grab Water Sample
PZ37D-051502-BE Filtered Grab Water Sample
PZ37S-051502-BE Grab Water Sample
PZ37S-051502-BE Filtered Grab Water Sample
PZ34S-051502-BE Grab Water Sample
PZ34S-051502-BE Filtered Grab Water Sample
PZ34I-051502-BE Grab Water Sample
PZ34I-051502-BE Filtered Grab Water Sample
PZ34D-051502-BE Grab Water Sample
PZ34D-051502-BE Filtered Grab Water Sample
TB02127 Water Sample

Lancaster Labs Number

3820842
3820843
3820844
3820845
3820846
3820847
3820848
3820849
3820850
3820851
3820852
3820853
3820854

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Earth Tech
1 COPY TO Earth Tech

Attn: Mr. Rob Stenson
Attn: Ms. Lisa Smith



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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,


Robert E. Mellinger
Sr Chemist/Coordinator



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Lancaster Laboratories Sample No. WW 3820842

Collected: 05/15/2002 11:55 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:08

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37I-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37I SDG#: DCJ79-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method		Units	Dilution Factor
				Detection Limit			
01754	Iron	7439-89-6	2.27	0.0350		mg/l	1
01758	Manganese	7439-96-5	0.489	0.00050		mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41		mg/l	1
00202	Alkalinity to pH 4.5	n.a.	400.	0.41		mg/l	1
00216	Total Hardness	471-34-3	505.	2.1		mg/l	5
00219	Nitrite Nitrogen	14797-65-0	0.018 J	0.015		mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.081 J	0.040		mg/l	1
00229	Sulfite	14265-45-3	N.D.	0.77		mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.79 J	0.50		mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	117.	6.0		mg/l	4
04001	Chemical Oxygen Demand	n.a.	22.9 J	8.8		mg/l	1
08344	Ferrous Iron	n.a.	2.0	0.060		mg/L	10
hold until pricing fixed in APQ, or new APQ done.							
09052	Ferric Iron (Calculation)	n.a.	0.23 J	0.060		mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.	1.0		ug/l	1
07108	Ethene	74-85-1	N.D.	1.0		ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01754	Iron	SW-846 6010B	1	05/20/2002 11:37	Joanne M Gates	1
01758	Manganese	SW-846 6010B	1	05/20/2002 11:37	Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/16/2002 12:55	Susan A Engle	5
00219	Nitrite Nitrogen	EPA 353.2	2	05/16/2002 12:23	Michelle A Hartman	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/24/2002 09:29	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/20/2002 18:32	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00	Susan A Engle	4



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Lancaster Laboratories Sample No. WW 3820842

Collected: 05/15/2002 11:55 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:08

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37I-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37I	SDG#: DCJ79-01					
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/16/2002 21:15	Daniel S Smith	10
09052	Ferric Iron (Calculation)	calculation	1	05/21/2002 12:23	Nina C Haller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 16:34	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/19/2002 21:00	James L Mertz	1



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Lancaster Laboratories Sample No. WW 3820843

Collected: 05/15/2002 11:55 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37I-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z37IF SDG#: DCJ79-02

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
					Limit	Factor
04001	Chemical Oxygen Demand	n.a.	20.7 J		8.8	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT			Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution
						Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3820844

Collected: 05/15/2002 12:50 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37D-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37D SDG#: DCJ79-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	8.37		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.140		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	337.		0.41	mg/l	1
00216	Total Hardness	471-34-3	490.		2.1	mg/l	5
00219	Nitrite Nitrogen	14797-65-0	0.165		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.98		0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.69 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	72.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	27.2 J		8.8	mg/l	1
08344	Ferrous Iron	n.a.	2.5		0.060	mg/L	10
09052	Ferric Iron (Calculation)	n.a.	5.8		0.060	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01754	Iron	SW-846 6010B	1	05/20/2002 11:52		Joanne M Gates	1
01758	Manganese	SW-846 6010B	1	05/20/2002 11:52		Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 16:54		Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 16:54		Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/16/2002 12:55		Susan A Engle	5
00219	Nitrite Nitrogen	EPA 353.2	2	05/16/2002 12:25		Michelle A Hartman	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/24/2002 09:32		Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30		Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/22/2002 14:42		Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00		Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15		Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3820844

Collected: 05/15/2002 12:50 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37D-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37D	SDG#: DCJ79-03					
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/16/2002 21:15	Daniel S Smith	10
09052	Ferric Iron (Calculation)	calculation	1	05/21/2002 12:25	Nina C Haller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 17:05	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/19/2002 21:00	James L Mertz	1


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Page 1 of 1

Lancaster Laboratories Sample No. WW 3820845

Collected: 05/15/2002 12:50 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37D-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z37DF SDG#: DCJ79-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	25.0 J		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1



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Page 1 of 2

Lancaster Laboratories Sample No. WW 3820846

Collected: 05/15/2002 14:00 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37S-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37S SDG#: DCJ79-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	7.92		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.0344		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	272.		0.41	mg/l	1
00216	Total Hardness	471-34-3	402.		2.1	mg/l	5
00219	Nitrite Nitrogen	14797-65-0	0.202		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	3.87		0.080	mg/l	2
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.24 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	51.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	16.3 J		8.8	mg/l	1
08344	Ferrous Iron	n.a.	0.11		0.0060	mg/L	1
09052	Ferric Iron (Calculation)	n.a.	7.8		0.035	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01754	Iron	SW-846 6010B	1	05/20/2002 11:57	Joanne M Gates	1
01758	Manganese	SW-846 6010B	1	05/20/2002 11:57	Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/16/2002 12:55	Susan A Engle	5
00219	Nitrite Nitrogen	EPA 353.2	2	05/16/2002 12:26	Michelle A Hartman	1
00220	Nitrate Nitrogen	EPA 353.2	2	05/24/2002 09:55	Michelle A Hartman	2
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/22/2002 14:50	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1


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2216 Rev 9/11/00



Lancaster Laboratories Sample No. WW 3820849

Collected: 05/15/2002 16:35 by BJE

Submitted: 05/16/2002 09:05

Reported: 05/29/2002 at 17:09

Discard: 07/29/2002

PZ34S-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z34SF SDG#: DCJ79-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit
04001	Chemical Oxygen Demand	n.a.	20.7 J	8.8

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	A
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	S

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Collected: 05/15/2

Submitted: 05/16/

Reported: 05/29/2

Discard: 07/29/20

PZ34S-051502-BE G

Site Code: SC001

Dayton Thermal-NA

PZ34S SDG#: DCJ

01758 Manganese

00201 Alkalinity to

00202 Alkalinity to

00216 Total Hardnes

00219 Nitrite Nitro

00220 Nitrate Nitro

00229 Sulfite

00273 Total Organic

01125 Sulfate (turb

04001 Chemical Oxyg

08344 Ferrous Iron

09052 Ferric Iron

07105 Volatile Hea

Hydrocarbon

02300 UST-Unleaded

8260B

01163 GC/MS VOA Wat

01848 WW SW846 ICP

rec)



Lancaster Laboratories Sample No. WW 382

Collected: 05/15/2002 16:45 by BJE

Submitted: 05/16/2002 09:05
Reported: 05/29/2002 at 17:09
Discard: 07/29/2002
PZ34I-051502-BE Grab Water Sample
Site Code: SC001 RFA# ET02020
Dayton Thermal-NAP/Dayton, OH

PZ34I SDG#: DCJ79-09

CAT No.	Analysis Name	CAS Number
01754	Iron	7439-89-6
01758	Manganese	7439-96-5
00201	Alkalinity to pH 8.3	n.a.
00202	Alkalinity to pH 4.5	n.a.
00216	Total Hardness	471-34-3
00219	Nitrite Nitrogen	14797-65-0
00220	Nitrate Nitrogen	14797-55-8
00229	Sulfite	14265-45-3
The 40 CFR Part 136 requires that analysis be performed immediately (within 15 minutes) upon sample collection. Analysis is performed promptly upon receipt at the laboratory and may not be acceptable for NPDES compliance monitoring.		
00273	Total Organic Carbon	n.a.
01125	Sulfate (turbidimetric)	14808-79-8
04001	Chemical Oxygen Demand	n.a.
08344	Ferrous Iron	n.a.
09052	Ferric Iron (Calculation)	n.a.
07105	Volatile Headspace Hydrocarbon	
07107	Ethane	74-84-0
07108	Ethene	74-85-1
02300	UST-Unleaded Waters by 8260B	
05401	Benzene	71-43-2
05407	Toluene	108-88-3
05415	Ethylbenzene	100-41-4
06310	Xylene (Total)	1330-20-7
A site-specific MSD sample was not submitted for analysis. Analysis was performed to demonstrate precision and accuracy.		

Laboratory

CAT No.	Analysis Name	Method
01754	Iron	SW-846 6010B



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Lancaster Laboratories Sample No. WW 38201

Collected: 05/15/2002 16:35 by BJE

Submitted: 05/16/2002 09:05
Reported: 05/29/2002 at 17:09
Discard: 07/29/2002
PZ34S-051502-BE Grab Water Sample
Site Code: SC001 RFA# ET02020
Dayton Thermal-NAP/Dayton, OH

PZ34S SDG#: DCJ79-07

CAT No.	Analysis Name	CAS Number
01754	Iron	7439-89-6
01758	Manganese	7439-96-5
00201	Alkalinity to pH 8.3	n.a.
00202	Alkalinity to pH 4.5	n.a.
00216	Total Hardness	471-34-3
00219	Nitrite Nitrogen	14797-65-0
00220	Nitrate Nitrogen	14797-55-8
00229	Sulfite	14265-45-3
The 40 CFR Part 136 requires that analysis be performed immediately (within 15 minutes) upon sample collection. Analysis is performed promptly upon receipt at the laboratory and may not be acceptable for NPDES compliance monitoring.		
00273	Total Organic Carbon	n.a.
01125	Sulfate (turbidimetric)	14808-79-8
04001	Chemical Oxygen Demand	n.a.
08344	Ferrous Iron	n.a.
09052	Ferric Iron (Calculation)	n.a.
07105	Volatile Headspace Hydrocarbon	
07107	Ethane	74-84-0
07108	Ethene	74-85-1
02300	UST-Unleaded Waters by 8260B	
05401	Benzene	71-43-2
05407	Toluene	108-88-3
05415	Ethylbenzene	100-41-4
06310	Xylene (Total)	1330-20-7
A site-specific MSD sample was not submitted for analysis. Analysis was performed to demonstrate precision and accuracy.		

Laboratory

CAT No.	Analysis Name	Method
01754	Iron	SW-846 6010B



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Lancaster Laboratories Sample No. WW 3820847

Collected: 05/15/2002 14:00 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37S-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z37SF SDG#: DCJ79-06

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
					Limit	Factor
04001	Chemical Oxygen Demand	n.a.	29.4 J		8.8	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3820850

Collected: 05/15/2002 16:45 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ34I-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ34I	SDG#: DCJ79-09					
01758	Manganese	SW-846 6010B	1	05/20/2002 12:07	Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/16/2002 12:55	Susan A Engle	5
00219	Nitrite Nitrogen	EPA 353.2	2	05/16/2002 12:28	Michelle A Hartman	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/24/2002 09:36	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/22/2002 15:23	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/16/2002 21:15	Daniel S Smith	10
09052	Ferric Iron (Calculation)	calculation	1	05/21/2002 12:31	Nina C Haller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 17:36	Lisa A Johnson	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/17/2002 13:01	Susan McMahon-Luu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/17/2002 13:01	Susan McMahon-Luu	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/19/2002 21:00	James L Mertz	1



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Lancaster Laboratories Sample No. WW 3820851

Collected: 05/15/2002 16:45 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ34I-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z34IF SDG#: DCJ79-10

CAT	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
04001	Chemical Oxygen Demand	n.a.	22.9 J		8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3820852

Collected: 05/15/2002 17:45 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:10

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Discard: 07/29/2002

Livonia MI 48153-7933

PZ34D-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ34D SDG#: DCJ79-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	2.23		0.0350	mg/l	1
01758	Manganese	7439-96-5	0.161		0.00050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l	1
00202	Alkalinity to pH 4.5	n.a.	384.		0.41	mg/l	1
00216	Total Hardness	471-34-3	499.		2.1	mg/l	5
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00229	Sulfite	14265-45-3	N.D.		0.77	mg/l	1
The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring.							
00273	Total Organic Carbon	n.a.	1.61 J		0.50	mg/l	1
01125	Sulfate (turbidimetric)	14808-79-8	91.		6.0	mg/l	4
04001	Chemical Oxygen Demand	n.a.	12.0 J		8.8	mg/l	1
08344	Ferrous Iron	n.a.	2.4		0.060	mg/L	10
09052	Ferric Iron (Calculation)	n.a.	N.D.		0.060	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.8	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01754	Iron	SW-846 6010B	1	05/20/2002 12:12	Joanne M Gates	1



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Lancaster Laboratories Sample No. WW 3820852

Collected: 05/15/2002 17:45 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:10

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ34D-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ34D	SDG#: DCJ79-11					
01758	Manganese	SW-846 6010B	1	05/20/2002 12:12	Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	05/22/2002 16:54	Elaine F Stoltzfus	1
00216	Total Hardness	EPA 130.2 (modified)	1	05/16/2002 12:55	Susan A Engle	5
00219	Nitrite Nitrogen	EPA 353.2	2	05/16/2002 12:30	Michelle A Hartman	1
00220	Nitrate Nitrogen	EPA 353.2	1	05/24/2002 09:37	Michelle A Hartman	1
00229	Sulfite	EPA 377.1	1	05/23/2002 12:30	Michele L Graham	1
00273	Total Organic Carbon	EPA 415.1	1	05/22/2002 15:31	Timothy M Petree	1
01125	Sulfate (turbidimetric)	EPA 375.4	1	05/21/2002 10:00	Susan A Engle	4
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/16/2002 21:15	Daniel S Smith	10
09052	Ferric Iron (Calculation)	calculation	1	05/21/2002 12:34	Nina C Haller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 17:46	Lisa A Johnson	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/17/2002 13:26	Susan McMahon-Luu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/17/2002 13:26	Susan McMahon-Luu	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/19/2002 21:00	James L Mertz	1



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Lancaster Laboratories Sample No. WW 3820853

Collected: 05/15/2002 17:45 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:10

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ34D-051502-BE Filtered Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

Z34DF SDG#: DCJ79-12

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
				Limit	Units	Factor
04001	Chemical Oxygen Demand	n.a.	25.0 J	8.8	mg/l	1

This sample was field filtered for dissolved COD.

Laboratory Chronicle

CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04001	Chemical Oxygen Demand	EPA 410.4	1	05/20/2002 08:15	Susan A Engle	1



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Lancaster Laboratories Sample No. WW 3820854

Collected: 05/13/2002 00:00

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:10

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

TB02127 Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

T2127 SDG#: DCJ79-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02300	UST-Unleaded Waters by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	05/17/2002 12:11	Susan McMahon-Luu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/17/2002 12:11	Susan McMahon-Luu	n.a.



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Quality Control Summary

Page 1 of 3

Client Name: DaimlerChrysler Corporation
 Reported: 05/29/02 at 05:10 PM

Group Number: 807755

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02136021602A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Total Hardness	N.D.	.42	mg/l	100		98-107		
Batch number: 02136105102A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Nitrite Nitrogen	N.D.	.015	mg/l	103		90-110		
Batch number: 02136834402A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Ferrous Iron	N.D.	.006	mg/L	101		90-112		
Batch number: 021391848001	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Iron	N.D.	.035	mg/l	100		91-114		
Manganese	N.D.	.0005	mg/l	102		94-110		
Batch number: 02140011112A	Sample number(s): 3820842							
Total Organic Carbon	0.59 J	.5	mg/l	104		85-115		
Batch number: 02140011112B	Sample number(s): 3820844, 3820846, 3820848, 3820850, 3820852							
Total Organic Carbon	0.59 J	.5	mg/l	104		85-115		
Batch number: 02140400101A	Sample number(s): 3820842-3820853							
Chemical Oxygen Demand				100		95-107		
Batch number: 02141112501A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Sulfate (turbidimetric)	1.6 J	1.5	mg/l	94		90-110		
Batch number: 021420018A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Ethane	N.D.	1.	ug/l	107		80-120		
Ethene	N.D.	1.	ug/l	106		80-120		
Batch number: 02142020201A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Alkalinity to pH 4.5				99		97-101		
Batch number: 02143022901A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Sulfite	N.D.	.77	mg/l	87		68-103		
Batch number: 02144106102A	Sample number(s): 3820842, 3820844, 3820846							
Nitrate Nitrogen	N.D.	.04	mg/l	103		90-110		
Batch number: 02144106102B	Sample number(s): 3820848, 3820850, 3820852							
Nitrate Nitrogen	N.D.	.04	mg/l	103		90-110		
Batch number: N021371AA	Sample number(s): 3820848, 3820850, 3820852, 3820854							
Benzene	N.D.	.5	ug/l	98	103	84-120	5	30
Toluene	N.D.	.7	ug/l	97	100	86-123	3	30
Ethylbenzene	N.D.	.8	ug/l	95	99	88-124	4	30
Xylene (Total)	N.D.	.8	ug/l	98	101	89-124	3	30

Sample Matrix Quality Control

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup	
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Batch number: 02136021602A	Sample number(s): 3820842,3820844,3820846,3820848,3820850,3820852								
Total Hardness	100	100	93-115	0	2	499.	503.	1	4
Batch number: 02136105102A	Sample number(s): 3820842,3820844,3820846,3820848,3820850,3820852								

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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2216 Rev 9/11/00


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Page 2 of 2

Lancaster Laboratories Sample No. WW 3820846

Collected: 05/15/2002 14:00 by BJE

Account Number: 10160

Submitted: 05/16/2002 09:05

DaimlerChrysler Corporation

Reported: 05/29/2002 at 17:09

PO Box 537933

Discard: 07/29/2002

Livonia MI 48153-7933

PZ37S-051502-BE Grab Water Sample

Site Code: SC001 RFA# ET02020

Dayton Thermal-NAP/Dayton, OH

PZ37S	SDG#: DCJ79-05					
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	05/16/2002 21:15	Daniel S Smith	1
09052	Ferric Iron (Calculation)	calculation	1	05/21/2002 12:27	Nina C Haller	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	05/22/2002 17:15	Lisa A Johnson	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/19/2002 21:00	James L Mertz	1


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Quality Control Summary

Page 2 of 3

Client Name: DaimlerChrysler Corporation
Reported: 05/29/02 at 05:10 PM

Group Number: 807755

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
Nitrite Nitrogen	106		90-110			N.D.	N.D.	5 (1) 20
Batch number: 02136834402A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Ferrous Iron	99	100	40-149	0	5	0.0071 J	0.0245 J	111* (1) 20
Batch number: 021391848001	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Iron	101	106	75-125	4	20	0.169	0.170	0 (1) 20
Manganese	102	104	75-125	2	20	0.171	0.171	0 20
Batch number: 02140011112A	Sample number(s): 3820842							
Total Organic Carbon	99		73-128			1.68 J	1.55 J	8* (1) 3
Batch number: 02140011112B	Sample number(s): 3820844, 3820846, 3820848, 3820850, 3820852							
Total Organic Carbon	98		73-128			1.48 J	1.40 J	6* (1) 3
Batch number: 02140400101A	Sample number(s): 3820842-3820853							
Chemical Oxygen Demand	97	98	82-111	2	2	62.	56.	11* (1) 4
Batch number: 02141112501A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Sulfate (turbidimetric)	99	100	69-124	1	4	109.	106.	3 4
Batch number: 021420018A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Ethane	110	105	74-121	5	20			
Ethene	120	116	73-133	4	20			
Batch number: 02142020201A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Alkalinity to pH 8.3						98.1	97.0	1 4
Alkalinity to pH 4.5	101	95	64-130	4*	2	116.	112.	3 4
Batch number: 02143022901A	Sample number(s): 3820842, 3820844, 3820846, 3820848, 3820850, 3820852							
Sulfite	80	79	29-104	1	20	N.D.	N.D.	200* (1) 20
Batch number: 02144106102A	Sample number(s): 3820842, 3820844, 3820846							
Nitrate Nitrogen	104		90-110			0.046 J	N.D.	42* (1) 3
Batch number: 02144106102B	Sample number(s): 3820848, 3820850, 3820852							
Nitrate Nitrogen	100		90-110			N.D.	N.D.	200* (1) 3
Batch number: N021371AA	Sample number(s): 3820848, 3820850, 3820852, 3820854							
Benzene	109		78-134					
Toluene	107		78-133					
Ethylbenzene	105		82-134					
Xylene (Total)	108		81-136					

Surrogate Quality Control

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 021420018A
Propene

3820842	96
3820844	92
3820846	87
3820848	100
3820850	100
3820852	87

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Page 3 of 3

Client Name: DaimlerChrysler Corporation
Reported: 05/29/02 at 05:10 PM

Group Number: 807755

Surrogate Quality Control

Blank 103
LCS 100
MS 96
MSD 95

Limits: 61-125

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: N021371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3820848	106	96	103	96
3820850	106	99	102	95
3820852	108	100	103	95
3820854	106	98	102	95
Blank	106	99	101	96
LCS	101	99	105	104
LCSD	102	99	105	104
MS	103	99	105	104
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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2216 Rev 9/11/00

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

NO C 4231

Company Name	Phone #: 920-458-3711
EARTH TECH	Project Manager: ROB STINSON
Company Address	Site Location: (City, State)
4135 TECHNOLOGY PARK	DAYTON OH
Facility Number	Project ID #: 57937 10.20
	Project Name: DAYTON THERMAL
I attest that the proper field sampling procedures were used during the collection of these samples	Sampler Name (Print): TOM BREWER

ANALYSIS REQUEST

OTHER

Field Sample ID	# CONTAINERS	Matrix						Method Preserved						Sampling		BTEX 602 <input type="checkbox"/> 8020 <input type="checkbox"/> BTEX/Gas Hydrocarbon <input type="checkbox"/> Hydrocarbons GC/FID <input type="checkbox"/> Tennessee Method DRRI <input type="checkbox"/> Oil and Grease 413 1 <input type="checkbox"/> TPH 418 1 <input type="checkbox"/> SM 503 <input type="checkbox"/> EDC b <input type="checkbox"/> EDB by 504 <input type="checkbox"/> EDC b <input type="checkbox"/> EPA 503 1 <input type="checkbox"/> EPA 50 <input type="checkbox"/> EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/> EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/> EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> EPA 624/PPL <input type="checkbox"/> 824C <input type="checkbox"/> EPA 625/PPL <input type="checkbox"/> 827C <input type="checkbox"/> EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/> TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> EPA Metals - Priority P <input type="checkbox"/> Lead 239 2 <input type="checkbox"/> 200 7 <input type="checkbox"/> Corrosivity <input type="checkbox"/> Flash P <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	UNPREPARED SERVED OTHER (Specify)	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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☐ BTEX 602 ☐ 8020 ☐ with MTBE ☐ GRO ☐
☐ BTEX/Gas Hydrocarbons PID/FID ☐ with MTBE ☐
☐ Hydrocarbons GC/FID Gas ☐ Diesel ☐ Screen ☐
☐ Tennessee Method DRO ☐
☐ Oil and Grease 413 1 ☐ 413 2 ☐ 9071 ☐
☐ TPH 418 1 ☐ SM 503 ☐
☐ EDB by 504 ☐ EDC by 504 ☐
☐ EPA 503 1 ☐ EPA 502 2 ☐
☐ EPA 601 ☐ EPA 8010 ☐
☐ EPA 602 ☐ EPA 8020 ☐
☐ EPA 608 ☐ 8080 ☐ PCB only ☐
☐ EPA 624/PPPL ☐ 8240/TAL ☐ NBS (+15) ☐ MTBE ☐
☐ EPA 625/PPPL ☐ 8270/TAL ☐ NBS (+25) ☐ BN ☐
☐ EPA 610 ☐ 8310 ☐
☐ TCLP Metals ☐ VOA ☐ Semi-VOA ☐ Pest ☐ Herb ☐
☐ EPA Metals - Priority Pollutant ☐ TAL ☐ RCRA ☐
☐ Lead 239 2 ☐ 200 7 ☐ 7420 ☐ 7421 ☐ 6010 ☐
☐ Corrosivity ☐ Flash Point ☐ Reactivity ☐

TO14 VOLATILES

TAT Priority (24 hr) <input type="checkbox"/> Expedited (48 hr) <input type="checkbox"/> 7 Business Days <input type="checkbox"/> Other <input type="checkbox"/> Business Days <input type="checkbox"/>	Special Handling Earth Tech Contact <input type="checkbox"/> Quote/Contract # <input type="checkbox"/> Confirmation # <input type="checkbox"/> PO # <input type="checkbox"/>	SPECIAL DETECTION LIMITS (Specify) 	REMARKS
QA/QC Level Blue <input type="checkbox"/> CLP <input type="checkbox"/> Standard <input type="checkbox"/> Other <input type="checkbox"/>		SPECIAL REPORTING REQUIREMENTS (Specify) 	Lab Use Only Lot # <input type="checkbox"/> Storage Location <input type="checkbox"/>
CUSTODY RECORD		FAX	Work Order #

CUSTODY RECORD	Relinquished by Sampler	Date	Time	Received by
	TOM BREWER	8/1/02	2:45	RED EX
	Relinquished by	Date	Time	Received by
	Relinquished by	Date	Time	Received by Laboratory
				Way bill # 833182050652 8/13/02 1030



ANALYTICAL RESULTS

Prepared for

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 817558. Samples arrived at the laboratory on Saturday, August 03, 2002. The PO# for this group is N99C403749-B.

Client Description

K-6/7-D Tedlar Bag Grab Air Sample
K-6/5-D Tedlar Bag Grab Air Sample
K-11-D Tedlar Bag Grab Air Sample
K-7/6-D Tedlar Bag Grab Air Sample
I-8/9-D Tedlar Bag Grab Air Sample
K-8/7-D Tedlar Bag Grab Air Sample
K-I-3 Tedlar Bag Grab Air Sample
K-1-D Tedlar Bag Grab Air Sample
K-8/9-D Tedlar Bag Grab Air Sample
K-2/3-D Tedlar Bag Grab Air Sample
K-3-D Tedlar Bag Grab Air Sample
I-6/7-D Tedlar Bag Grab Air Sample

Lancaster Labs Number

3870889
3870890
3870891
3870892
3870893
3870894
3870895
3870896
3870897
3870898
3870899
3870900

1 COPY TO Earth Tech
1 COPY TO Earth Tech
1 COPY TO Earth Tech

Attn: Ms. Lisa Smith
Attn: Mr. Rob Stenson
Attn: Mr. Jay Erickson



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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

KAREN L. BANEY
SENIOR CHEMIST



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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3870889

Collected: 08/01/2002 10:50 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:48

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-6/7-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K6-7D SDG#: DCK28-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
---------	---------------	------------	--------------------	---------------------------------------	-------	-----------------

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 01:19	George M Main	1
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 01:19	George M Main	1



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Lancaster, PA 17605-2425
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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870889 Date Analyzed: 08/06/02 Time Analyzed: 01:19
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2601015.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.12	5	J
2213-23-2	Heptane, 2,4-dimethyl-	20.45	8	J
2216-34-4	Octane, 4-methyl-	21.65	13	J
108-94-1	Cyclohexanone	24.58	5	J
	C9H12 aromatic	25.73	5	J
	Unknown aliphatic hydrocarbon	26.50	20	J
104-76-7	1-Hexanol, 2-ethyl-	27.03	6	J
	Unknown aliphatic hydrocarbon	27.46	22	J
	Unknown aliphatic hydrocarbon	27.57	5	J
	Unknown siloxane	27.94	6	J

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870889 Date Analyzed: 08/06/02 Time Analyzed: 01:19
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2601015.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	7	
75-71-8	Dichlorodifluoromethane	0.9	J
75-45-6	Chlorodifluoromethane	2	
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.6	J
75-01-4	Vinyl Chloride	0.2	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	0.5	J
109-66-0	Pentane	9	
107-02-8	Acrolein	6	
75-35-4	1,1-Dichloroethene	0.2	U
76-13-1	Freon 113	0.5	U
67-64-1	Acetone	34	
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	7	
75-05-8	Acetonitrile	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	2	
75-65-0	tert-Butyl Alcohol	0.2	U
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.2	U
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	5	
75-34-3	1,1-Dichloroethane	0.2	U
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	2	
78-93-3	2-Butanone	25	
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	0.2	U
71-55-6	1,1,1-Trichloroethane	1	

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870889 Date Analyzed: 08/06/02 Time Analyzed: 01:19
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2601015.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	5	
540-84-1	Isooctane	1	
142-82-5	Heptane	1	
79-01-6	Trichloroethene	8	
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.5	U
108-88-3	Toluene	30	
111-65-9	Octane	2	
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	25	
591-78-6	2-Hexanone	0.6	J
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	5	
1330-20-7	m/p-Xylene	19	
95-47-6	o-Xylene	8	
100-42-5	Styrene	1	
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.5	J
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870889 Date Analyzed: 08/06/02 Time Analyzed: 01:19
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2601015.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	8	
108-67-8	1,3,5-Trimethylbenzene	4	
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	11	
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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Lancaster Laboratories Sample No. AQ 3870890

Collected: 08/01/2002 13:10 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-6/5-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K6-5D SDG#: DCK28-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 02:02	George M Main	167
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 02:48	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 02:02	George M Main	167
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 02:48	George M Main	25



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 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax 717-656-2681



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K6-5D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870890 Date Analyzed: 08/06/02 Time Analyzed: 02:48
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2801017.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.10	170	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.73	130	J D
107-83-5	Pentane, 2-methyl-	11.23	93	J D
127-19-5	Acetamide, N,N-dimethyl-	24.74	440	J D
	Unknown aliphatic hydrocarbon	26.26	190	J D
	Unknown aliphatic hydrocarbon	26.50	280	J D
	Unknown aliphatic hydrocarbon	26.72	120	J D
	Unknown aliphatic hydrocarbon	27.46	280	J D
	Unknown siloxane	27.95	250	J D
	Unknown siloxane	31.36	180	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870890 Date Analyzed: 08/06/02 Time Analyzed: 02:48
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C \HPCHEM\1\DATA\AUG05\2801017.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	5	U
75-71-8	Dichlorodifluoromethane	5	U
75-45-6	Chlorodifluoromethane	78	D
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	22	J D
106-99-0	1,3-Butadiene	25	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-43-4	Dichlorofluoromethane	5	U
75-69-4	Trichlorofluoromethane	5	U
109-66-0	Pentane	42	D
107-02-8	Acrolein	21	J D
75-35-4	1,1-Dichloroethene	5	U
76-13-1	Freon 113	100	D
67-64-1	Acetone	170	D
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon Disulfide	63	D
75-05-8	Acetonitrile	13	U
107-05-1	3-Chloropropene	13	U
75-09-2	Methylene Chloride	58	D
75-65-0	tert-Butyl Alcohol	150	D
107-13-1	Acrylonitrile	13	U
156-60-5	trans-1,2-Dichloroethene	11	J D
1634-04-4	Methyl t-Butyl Ether	3100	D
110-54-3	Hexane	61	D
75-34-3	1,1-Dichloroethane	330	D
108-05-4	Vinyl Acetate	5	U
156-59-2	cis-1,2-Dichloroethene	560	D
78-93-3	2-Butanone	30	D
141-78-6	Ethyl Acetate	5	U
96-33-3	Methyl Acrylate	5	U
67-66-3	Chloroform	34	D
71-55-6	1,1,1-Trichloroethane	160	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE. Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870890 Date Analyzed: 08/06/02 Time Analyzed: 02:48
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25 0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2801017.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	270	D
540-84-1	Isooctane	5	U
142-82-5	Heptane	5	U
79-01-6	Trichloroethene	1400	D
140-88-5	Ethyl Acrylate	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
74-95-3	Dibromomethane	5	U
123-91-1	1,4-Dioxane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	2000	D
111-65-9	Octane	1800	D
10061-02-6	trans-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	10000	D
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	2300	D
1330-20-7	m/p-Xylene	4000	D
95-47-6	o-Xylene	2100	D
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Cumene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
108-86-1	Bromobenzene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870890 Date Analyzed: 08/06/02 Time Analyzed: 02:48
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2801017.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	12	J D
108-67-8	1,3,5-Trimethylbenzene	5	U
98-83-9	Alpha Methyl Styrene	5	U
95-63-6	1,2,4-Trimethylbenzene	16	J D
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	13	U
67-72-1	Hexachloroethane	5	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	13	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3870891

Collected: 08/01/2002 11:55 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-11-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-11D SDG#: DCK28-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 04:14	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 03:31	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 04 14	George M Main	5



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Page 2 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-11D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870891 Date Analyzed: 08/06/02 Time Analyzed: 04:14
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\3001019.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.55	11	J D
78-78-4	Butane, 2-methyl-	8.08	15	J D
67-63-0	Isopropyl Alcohol	10.85	47	J D
	Unknown aliphatic hydrocarbon	24.32	9	J D
	Unknown siloxane	24.45	21	J D
127-19-5	Acetamide, N,N-dimethyl-	24.74	53	J D
	Unknown aliphatic hydrocarbon	25.73	10	J D
	Unknown aliphatic hydrocarbon	26.25	38	J D
	Unknown aliphatic hydrocarbon	26.50	14	J D
	Unknown aliphatic hydrocarbon	26.71	31	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-11D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870891 Date Analyzed: 08/06/02 Time Analyzed: 04:14
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\3001019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	4	J D
75-71-8	Dichlorodifluoromethane	5	D
75-45-6	Chlorodifluoromethane	5	U
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	U
109-66-0	Pentane	4	J D
107-02-8	Acrolein	4	J D
75-35-4	1,1-Dichloroethene	1	U
76-13-1	Freon 113	3	U
67-64-1	Acetone	31	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	13	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	3	J D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	2	J D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	J D
75-34-3	1,1-Dichloroethane	4	J D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	78	D
78-93-3	2-Butanone	21	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	9	D
71-55-6	1,1,1-Trichloroethane	17	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-11D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870891 Date Analyzed: 08/06/02 Time Analyzed: 04:14
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\3001019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	3	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	1100	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	26	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	960	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	3	J D
1330-20-7	m/p-Xylene	12	D
95-47-6	o-Xylene	5	J D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-11D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870891 Date Analyzed: 08/06/02 Time Analyzed: 04:14
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\3001019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	5	D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3870892

Collected: 08/01/2002 13:00 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-7/6-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K7-6D SDG#: DCK28-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 11:29	George M Main	83
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 12:15	George M Main	12
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 11:29	George M Main	83
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 12:15	George M Main	12



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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K7-6D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870892 Date Analyzed: 08/06/02 Time Analyzed: 12:15
Injection Volume: 500 cc Nominal Volume 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0701006.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.08	52	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.57	81	J D
67-63-0	Isopropyl Alcohol	10.85	180	J D
	Unknown siloxane	24.44	190	J D
127-19-5	Acetamide, N,N-dimethyl-	24.76	55	J D
	Unknown aliphatic hydrocarbon	26.24	120	J D
	Unknown aliphatic hydrocarbon	26.49	120	J D
	Unknown aliphatic hydrocarbon	26.70	58	J D
	Unknown aliphatic hydrocarbon	27.45	120	J D
	Unknown siloxane	27.94	210	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-6D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870892 Date Analyzed: 08/06/02 Time Analyzed: 12:15
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	8	J D
75-71-8	Dichlorodifluoromethane	2	U
75-45-6	Chlorodifluoromethane	32	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	12	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	2	U
109-66-0	Pentane	15	D
107-02-8	Acrolein	9	J D
75-35-4	1,1-Dichloroethene	33	D
76-13-1	Freon 113	58	D
67-64-1	Acetone	68	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	29	D
75-05-8	Acetonitrile	6	U
107-05-1	3-Chloropropene	6	U
75-09-2	Methylene Chloride	18	D
75-65-0	tert-Butyl Alcohol	130	D
107-13-1	Acrylonitrile	6	U
156-60-5	trans-1,2-Dichloroethene	11	J D
1634-04-4	Methyl t-Butyl Ether	780	D
110-54-3	Hexane	17	D
75-34-3	1,1-Dichloroethane	180	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	480	D
78-93-3	2-Butanone	12	J D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	10	J D
71-55-6	1,1,1-Trichloroethane	1400	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-6D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870892 Date Analyzed: 08/06/02 Time Analyzed: 12:15
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	76	D
540-84-1	Isooctane	2	U
142-82-5	Heptane	2	U
79-01-6	Trichloroethene	2500	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	6	U
108-88-3	Toluene	690	D
111-65-9	Octane	580	D
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	3900	D
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	720	D
1330-20-7	m/p-Xylene	1300	D
95-47-6	o-Xylene	670	D
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-6D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870892 Date Analyzed: 08/06/02 Time Analyzed: 12:15
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	J D
108-67-8	1,3,5-Trimethylbenzene	2	U
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	6	J D
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	6	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	6	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3870893

Collected: 08/01/2002 12:30 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

I-8/9-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

I8-9D SDG#: DCK28-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 13:43	George M Main	5
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/07/2002 15:24	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 13:43	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/07/2002 15:24	George M Main	25



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: I8-9D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870893 Date Analyzed: 08/06/02 Time Analyzed: 13:43
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0901008.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.53	17	J D
78-78-4	Butane, 2-methyl-	8.06	8	J D
354-23-4	Ethane, 1-2-dichloro-1,1,2-tri	9.56	12	J D
67-63-0	Isopropyl Alcohol	10.82	32	J D
127-19-5	Acetamide, N,N-dimethyl-	24.75	120	J D
	Unknown aliphatic hydrocarbon	25.72	9	J D
	Unknown aliphatic hydrocarbon	26.24	15	J D
	Unknown aliphatic hydrocarbon	26.49	14	J D
	Unknown aliphatic hydrocarbon	26.70	15	J D
	Unknown aliphatic hydrocarbon	27.45	7	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR

TEDLAR BAG SAMPLE

ANALYSIS DATA SHEET

Sample No.: I8-9D Date Collected: 08/01/02 Date Received: 08/03/02
 Lab Sample ID: 3870893 Date Analyzed: 08/06/02 Time Analyzed: 13:43
 Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	18	D
75-71-8	Dichlorodifluoromethane	1	J D
75-45-6	Chlorodifluoromethane	150	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	2	J D
109-66-0	Pentane	3	J D
107-02-8	Acrolein	3	J D
75-35-4	1,1-Dichloroethene	44	D
76-13-1	Freon 113	21	D
67-64-1	Acetone	28	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	11	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	3	J D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	18	D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	J D
75-34-3	1,1-Dichloroethane	170	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	240	D
78-93-3	2-Butanone	17	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	5	D
71-55-6	1,1,1-Trichloroethane	1200	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR

TEDLAR BAG SAMPLE

ANALYSIS DATA SHEET

Sample No.: I8-9D Date Collected: 08/01/02 Date Received: 08/03/02
 Lab Sample ID: 3870893 Date Analyzed: 08/06/02 Time Analyzed: 13:43
 Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	470	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	23	D
111-65-9	Octane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1200	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	3	J D
1330-20-7	m/p-Xylene	11	D
95-47-6	o-Xylene	4	J D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: I8-9D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870893 Date Analyzed: 08/06/02 Time Analyzed: 13:43
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\0901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS. MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	5	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3870894

Collected: 08/01/2002 12:45 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-8/7-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K8-7D SDG#: DCK28-06

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection Limit	Dilution Factor

Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 16:01	George M Main	25
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 16:42	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 16:01	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 16:42	George M Main	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K8-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870894 Date Analyzed: 08/06/02 Time Analyzed: 16:42
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1301004.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.53	13	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.58	23	J D
67-63-0	Isopropyl Alcohol	10.83	28	J D
	Unknown aliphatic hydrocarbon	24.30	19	J D
	Unknown aliphatic hydrocarbon	25.64	15	J D
	Unknown aliphatic hydrocarbon	26.23	160	J D
	Unknown aliphatic hydrocarbon	26.49	15	J D
	Unknown aliphatic hydrocarbon	26.70	110	J D
	Unknown aliphatic hydrocarbon	27.10	8	J D
	Unknown aliphatic hydrocarbon	28.87	10	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K8-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870894 Date Analyzed: 08/06/02 Time Analyzed: 16:42
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1301004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	4	J D
75-71-8	Dichlorodifluoromethane	2	J D
75-45-6	Chlorodifluoromethane	160	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	3	J D
109-66-0	Pentane	3	J D
107-02-8	Acrolein	3	J D
75-35-4	1,1-Dichloroethene	66	D
76-13-1	Freon 113	19	D
67-64-1	Acetone	28	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	10	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	3	U
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	7	D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	J D
75-34-3	1,1-Dichloroethane	92	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	110	D
78-93-3	2-Butanone	16	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	4	J D
71-55-6	1,1,1-Trichloroethane	930	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K8-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870894 Date Analyzed: 08/06/02 Time Analyzed: 16:42
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1301004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	460	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	25	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	920	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	3	J D
1330-20-7	m/p-Xylene	11	D
95-47-6	o-Xylene	5	J D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample

J = Compound was detected, but below the limit of quantitation.

NOTE. Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K8-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870894 Date Analyzed: 08/06/02 Time Analyzed: 16:42
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1301004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	4	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE. Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3870895

Collected: 08/01/2002 12:10 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-I-3 Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-I-3 SDG#: DCK28-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 18:08	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 17:22	George M Main	167
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 18:08	George M Main	25


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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-I-3 Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870895 Date Analyzed: 08/06/02 Time Analyzed: 18:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1501006.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.09	78	J D
67-63-0	Isopropyl Alcohol	10.82	180	J D
107-83-5	Pentane, 2-methyl-	11.22	63	J D
2213-23-2	Heptane, 2,4-dimethyl-	20.46	61	J D
	Unknown aliphatic hydrocarbon	21.65	54	J D
127-19-5	Acetamide, N,N-dimethyl-	24.78	110	J D
	Unknown aliphatic hydrocarbon	26.48	190	J D
	Unknown aliphatic hydrocarbon	27.44	170	J D
	Unknown aliphatic hydrocarbon	27.56	41	J D
	Unknown siloxane	27.94	160	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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Page 3 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-I-3 Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870895 Date Analyzed: 08/06/02 Time Analyzed: 18:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1501006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb (v)	Q
115-07-1	Propene	5	U
75-71-8	Dichlorodifluoromethane	5	U
75-45-6	Chlorodifluoromethane	53	D
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	32	D
106-99-0	1,3-Butadiene	25	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-43-4	Dichlorofluoromethane	5	U
75-69-4	Trichlorofluoromethane	5	U
109-66-0	Pentane	21	J D
107-02-8	Acrolein	26	D
75-35-4	1,1-Dichloroethene	5	U
76-13-1	Freon 113	27	D
67-64-1	Acetone	150	D
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon Disulfide	49	D
75-05-8	Acetonitrile	13	U
107-05-1	3-Chloropropene	13	U
75-09-2	Methylene Chloride	46	D
75-65-0	tert-Butyl Alcohol	66	D
107-13-1	Acrylonitrile	13	U
156-60-5	trans-1,2-Dichloroethene	7	J D
1634-04-4	Methyl t-Butyl Ether	340	D
110-54-3	Hexane	9	J D
75-34-3	1,1-Dichloroethane	48	D
108-05-4	Vinyl Acetate	5	U
156-59-2	cis-1,2-Dichloroethene	670	D
78-93-3	2-Butanone	14	J D
141-78-6	Ethyl Acetate	5	U
96-33-3	Methyl Acrylate	5	U
67-66-3	Chloroform	11	J D
71-55-6	1,1,1-Trichloroethane	88	D

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-I-3 Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870895 Date Analyzed: 08/06/02 Time Analyzed: 18:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1501006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	9	J D
540-84-1	Isooctane	5	U
142-82-5	Heptane	5	U
79-01-6	Trichloroethene	1900	D
140-88-5	Ethyl Acrylate	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
74-95-3	Dibromomethane	5	U
123-91-1	1,4-Dioxane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	230	D
111-65-9	Octane	88	D
10061-02-6	trans-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	8100	D
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	370	D
1330-20-7	m/p-Xylene	770	D
95-47-6	o-Xylene	470	D
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Cumene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
108-86-1	Bromobenzene	5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-I-3 Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870895 Date Analyzed: 08/06/02 Time Analyzed: 18:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1501006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	9	J D
108-67-8	1,3,5-Trimethylbenzene	5	U
98-83-9	Alpha Methyl Styrene	5	U
95-63-6	1,2,4-Trimethylbenzene	11	J D
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	13	U
67-72-1	Hexachloroethane	5	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	13	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3870896

Collected: 08/01/2002 11:00 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-1-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-1-D SDG#: DCK28-08

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
				Limit	Units	Factor

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 19:34	George M Main	1
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 19:34	George M Main	1


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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-1-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870896 Date Analyzed: 08/06/02 Time Analyzed: 19:34
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1701008.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.10	5	J
67-63-0	Isopropyl Alcohol	10.87	8	J
2213-23-2	Heptane, 2,4-dimethyl-	20.43	3	J
	Unknown aliphatic hydrocarbon	21.63	4	J
127-19-5	Acetamide, N,N-dimethyl-	24.75	11	J
	Unknown aliphatic hydrocarbon	26.49	15	J
	Unknown aliphatic hydrocarbon	26.62	3	J
104-76-7	1-Hexanol, 2-ethyl-	27.02	5	J
	Unknown aliphatic hydrocarbon	27.44	7	J
	Unknown siloxane	27.93	5	J

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-1-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870896 Date Analyzed: 08/06/02 Time Analyzed: 19:34
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1701008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	3	
75-71-8	Dichlorodifluoromethane	0.8	J
75-45-6	Chlorodifluoromethane	2	
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.6	J
75-01-4	Vinyl Chloride	0.2	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	0.5	J
109-66-0	Pentane	4	
107-02-8	Acrolein	5	
75-35-4	1,1-Dichloroethene	0.2	U
76-13-1	Freon 113	0.5	U
67-64-1	Acetone	30	
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	7	
75-05-8	Acetonitrile	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	2	
75-65-0	tert-Butyl Alcohol	0.2	J
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.2	U
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	2	
75-34-3	1,1-Dichloroethane	0.2	U
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	0.8	J
78-93-3	2-Butanone	18	
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	0.2	U
71-55-6	1,1,1-Trichloroethane	0.6	J

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : K-1-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870896 Date Analyzed: 08/06/02 Time Analyzed: 19:34
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1701008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	3	
540-84-1	Isooctane	0.7	J
142-82-5	Heptane	0.9	J
79-01-6	Trichloroethene	6	
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.5	U
108-88-3	Toluene	25	
111-65-9	Octane	1	
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	14	
591-78-6	2-Hexanone	0.5	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	3	
1330-20-7	m/p-Xylene	13	
95-47-6	o-Xylene	5	
100-42-5	Styrene	1	J
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.3	J
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-1-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870896 Date Analyzed: 08/06/02 Time Analyzed: 19:34
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1701008 D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS. MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	
108-67-8	1,3,5-Trimethylbenzene	3	
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	7	
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

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B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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Lancaster Laboratories Sample No. AQ 3870897

Collected: 08/01/2002 10:45 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:49

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-8/9-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K8-9D SDG#: DCK28-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
---------	---------------	------------	--------------------	---------------------------------------	-------	-----------------

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 20:17	George M Main	5
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 21:00	George M Main	1
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 20:17	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 21:00	George M Main	1



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K3-9D Date Collected: 08/01/02 Date Received: 08/03/02
 Lab Sample ID: 3870897 Date Analyzed: 08/06/02 Time Analyzed: 21:00
 Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1901010.D
 UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
108-94-1	Unknown aliphatic hydrocarbon	24.29	9	J
	Cyclohexanone	24.55	42	J
	Unknown aliphatic hydrocarbon	25.71	17	J
	Unknown aliphatic hydrocarbon	26.23	25	J
	Unknown aliphatic hydrocarbon	26.48	22	J
104-76-7	Unknown aliphatic hydrocarbon	26.70	25	J
	1-Hexanol, 2-ethyl-	27.01	7	J
	Unknown aliphatic hydrocarbon	27.44	9	J
	Unknown siloxane	27.92	8	J
	Unknown aliphatic hydrocarbon	28.87	7	J

B = Compound was found in method blank. D = analysis of diluted sample.
 J = Estimated concentration assuming identical response factor to that
 of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K3-9D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870897 Date Analyzed: 08/06/02 Time Analyzed: 21:00
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1901010 D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	6	
75-71-8	Dichlorodifluoromethane	1	
75-45-6	Chlorodifluoromethane	22	
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	2	
75-01-4	Vinyl Chloride	1	
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	1	
109-66-0	Pentane	6	
107-02-8	Acrolein	8	
75-35-4	1,1-Dichloroethene	7	
76-13-1	Freon 113	6	
67-64-1	Acetone	120	D
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	22	
75-05-8	Acetonitrile	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	11	
75-65-0	tert-Butyl Alcohol	3	
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	2	
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	4	
75-34-3	1,1-Dichloroethane	25	
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	35	
78-93-3	2-Butanone	180	D
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	0.9	J
71-55-6	1,1,1-Trichloroethane	220	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.. K3-9D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870897 Date Analyzed: 08/06/02 Time Analyzed: 21:00
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1901010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	3	
540-84-1	Isooctane	1	
142-82-5	Heptane	1	
79-01-6	Trichloroethene	80	
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.6	J
108-88-3	Toluene	32	
111-65-9	Octane	2	
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	150	D
591-78-6	2-Hexanone	1	
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	7	
1330-20-7	m/p-Xylene	27	
95-47-6	o-Xylene	12	
100-42-5	Styrene	2	
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.7	J
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K3-9D Date Collected 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870897 Date Analyzed: 08/06/02 Time Analyzed: 21:00
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\1901010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	11	
108-67-8	1,3,5-Trimethylbenzene	6	
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	15	
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.



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Lancaster Laboratories Sample No. AQ 3870898

Collected: 08/01/2002 11:12 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:50

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-2/3-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K2-3D SDG#: DCK28-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 21:41	George M Main	25
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 22:23	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 21:41	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 22:23	George M Main	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K2-3D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870898 Date Analyzed: 08/06/02 Time Analyzed: 22:23
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2101012.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T	ESTIMATED CONCENTRATION	Q
	Unknown aliphatic hydrocarbon	21.61	5	J D
108-94-1	Cyclohexanone	24.54	61	J D
127-19-5	Acetamide, N,N-dimethyl-	24.79	25	J D
	Unknown	26.24	21	J D
	Unknown aliphatic hydrocarbon	26.47	11	J D
	Unknown aliphatic hydrocarbon	27.43	7	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870898 Date Analyzed: 08/06/02 Time Analyzed: 22:23
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2101012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	3	J D
75-71-8	Dichlorodifluoromethane	1	J D
75-45-6	Chlorodifluoromethane	7	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	U
109-66-0	Pentane	3	J D
107-02-8	Acrolein	7	D
75-35-4	1,1-Dichloroethene	8	D
76-13-1	Freon 113	14	D
67-64-1	Acetone	70	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	11	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	3	U
75-65-0	tert-Butyl Alcohol	3	J D
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	3	J D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	1	J D
75-34-3	1,1-Dichloroethane	31	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	120	D
78-93-3	2-Butanone	470	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	2	J D
71-55-6	1,1,1-Trichloroethane	200	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870898 Date Analyzed: 08/06/02 Time Analyzed: 22:23
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2101012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	850	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	30	D
111-65-9	Octane	2	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	380	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	5	D
1330-20-7	m/p-Xylene	17	D
95-47-6	o-Xylene	8	D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870898 Date Analyzed: 08/06/02 Time Analyzed: 22:23
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2101012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5		J D
108-67-8	1,3,5-Trimethylbenzene	2		J D
98-83-9	Alpha Methyl Styrene	1		U
95-63-6	1,2,4-Trimethylbenzene	4		J D
541-73-1	1,3-Dichlorobenzene	3		U
106-46-7	1,4-Dichlorobenzene	3		U
100-44-7	Benzyl chloride	1		U
95-50-1	1,2-Dichlorobenzene	3		U
67-72-1	Hexachloroethane	1		U
120-82-1	1,2,4-Trichlorobenzene	5		U
87-68-3	Hexachlorobutadiene	3		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE. Limits of detection were raised due to the high concentration of volatile organic compounds in this sample



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Lancaster Laboratories Sample No. AQ 3870899

Collected: 08/01/2002 11:40 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:50

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

K-3-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-3-D SDG#: DCK28-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/06/2002 23 50	George M Main	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 23:05	George M Main	67
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/06/2002 23:50	George M Main	10



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-3-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870899 Date Analyzed: 08/06/02 Time Analyzed 23:50
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2301014.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.08	39	J D
67-63-0	Isopropyl Alcohol	10.81	57	J D
107-83-5	Pentane, 2-methyl-	11.23	130	J D
2213-23-2	Heptane, 2,4-dimethyl-	20.44	82	J D
	Unknown aliphatic hydrocarbon	21.62	80	J D
127-19-5	Acetamide, N,N-dimethyl-	24.71	69	J D
	Unknown aliphatic hydrocarbon	26.47	130	J D
	Unknown aliphatic hydrocarbon	27.43	130	J D
	Unknown siloxane	27.92	49	J D
	Unknown aliphatic hydrocarbon	31.02	38	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-3-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870899 Date Analyzed: 08/06/02 Time Analyzed: 23.50
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2301014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	13	D
75-71-8	Dichlorodifluoromethane	2	J D
75-45-6	Chlorodifluoromethane	25	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	5	J D
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	2	U
109-66-0	Pentane	22	D
107-02-8	Acrolein	20	D
75-35-4	1,1-Dichloroethene	4	J D
76-13-1	Freon 113	210	D
67-64-1	Acetone	74	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	23	D
75-05-8	Acetonitrile	75	D
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	22	D
75-65-0	tert-Butyl Alcohol	34	D
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	4	J D
1634-04-4	Methyl t-Butyl Ether	210	D
110-54-3	Hexane	23	D
75-34-3	1,1-Dichloroethane	160	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	260	D
78-93-3	2-Butanone	10	J D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	14	D
71-55-6	1,1,1-Trichloroethane	220	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR

TEDLAR BAG SAMPLE

ANALYSIS DATA SHEET

Sample No.: K-3-D Date Collected: 08/01/02 Date Received: 08/03/02
 Lab Sample ID: 3870899 Date Analyzed: 08/06/02 Time Analyzed: 23:50
 Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10 0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2301014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	28	D
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	6	J D
540-84-1	Isooctane	2	U
142-82-5	Heptane	2	U
79-01-6	Trichloroethene	800	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	140	D
111-65-9	Octane	81	D
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	13	D
127-18-4	Tetrachloroethene	2100	D
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	190	D
1330-20-7	m/p-Xylene	390	D
95-47-6	o-Xylene	230	D
100-42-5	Styrene	10	J D
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.. K-3-D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870899 Date Analyzed: 08/06/02 Time Analyzed: 23:50
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG06\2301014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	2	J D
108-67-8	1,3,5-Trimethylbenzene	2	U
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	4	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3870900

Collected: 08/01/2002 12:20 by TB

Account Number: 10160

Submitted: 08/03/2002 10:30

DaimlerChrysler Corporation

Reported: 08/15/2002 at 17:50

PO Box 537933

Discard: 10/15/2002

Livonia MI 48153-7933

I-6/7-D Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

I6-7D SDG#: DCK28-12*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/07/2002 14:39	George M Main	5
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/08/2002 03:44	George M Main	50
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/07/2002 14:39	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/08/2002 03:44	George M Main	50



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: I6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870900 Date Analyzed: 08/07/02 Time Analyzed: 14:39
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG07\0601005.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
75-28-5	Isobutane	6.11	42	J D
	Unknown C4H8 isomer	6.53	43	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.58	89	J D
67-63-0	Isopropyl Alcohol	10.83	60	J D
107-83-5	Pentane, 2-methyl-	11.24	20	J D
2213-23-2	Heptane, 2,4-dimethyl-	20.46	15	J D
	Unknown aliphatic hydrocarbon	21.63	19	J D
	Unknown aliphatic hydrocarbon	26.23	14	J D
	Unknown aliphatic hydrocarbon	26.47	19	J D
	Unknown aliphatic hydrocarbon	26.69	24	J D

B = Compound was found in method blank D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: I6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870900 Date Analyzed: 08/07/02 Time Analyzed: 14:39
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG07\0601005.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	23	D
75-71-8	Dichlorodifluoromethane	5	D
75-45-6	Chlorodifluoromethane	12	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	8	D
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	16	D
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	5	D
107-02-8	Acrolein	5	J D
75-35-4	1,1-Dichloroethene	6	D
76-13-1	Freon 113	390	D
67-64-1	Acetone	30	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	10	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	4	J D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	10	D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	4	J D
75-34-3	1,1-Dichloroethane	310	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	420	D
78-93-3	2-Butanone	19	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	29	D
71-55-6	1,1,1-Trichloroethane	430	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Page 4 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: I6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870900 Date Analyzed: 08/07/02 Time Analyzed: 14:39
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG07\0601005.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb (v)	Q
56-23-5	Carbon Tetrachloride	1		U
107-06-2	1,2-Dichloroethane	1		U
71-43-2	Benzene	5		J D
540-84-1	Isooctane	1		U
142-82-5	Heptane	1		U
79-01-6	Trichloroethene	1100		D
140-88-5	Ethyl Acrylate	1		U
78-87-5	1,2-Dichloropropane	1		U
80-62-6	Methyl Methacrylate	1		U
74-95-3	Dibromomethane	1		U
123-91-1	1,4-Dioxane	1		U
75-27-4	Bromodichloromethane	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
108-10-1	4-Methyl-2-Pentanone	3		U
108-88-3	Toluene	24		D
111-65-9	Octane	1		J D
10061-02-6	trans-1,3-Dichloropropene	1		U
97-63-2	Ethyl Methacrylate	1		U
79-00-5	1,1,2-Trichloroethane	1		U
127-18-4	Tetrachloroethene	2600		D
591-78-6	2-Hexanone	3		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
108-90-7	Chlorobenzene	1		U
630-20-6	1,1,1,2-Tetrachloroethane	1		U
100-41-4	Ethylbenzene	3		J D
1330-20-7	m/p-Xylene	13		D
95-47-6	o-Xylene	5		J D
100-42-5	Styrene	1		J D
75-25-2	Bromoform	1		U
98-82-8	Cumene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
108-86-1	Bromobenzene	1		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: I6-7D Date Collected: 08/01/02 Date Received: 08/03/02
Lab Sample ID: 3870900 Date Analyzed: 08/07/02 Time Analyzed: 14:39
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG07\0601005.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	4	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	5	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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When Quality is a Control Summary

Page 1 of 6

Client Name: DaimlerChrysler Corporation
Reported: 08/15/02 at 05:50 PM

Group Number: 817558

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sample number(s): 3870889-3870891								
Batch number: A022171AB	N D	2	ppb (v)					
tert-Butyl Alcohol	N D	.2	ppb (v)					
Propene	N D	2	ppb (v)					
Dichlorodifluoromethane	N D	1.	ppb (v)					
Chlorodifluoromethane	N.D.	2	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)	127		43-158		
Vinyl Chloride	N.D.	1.	ppb (v)					
1,3-Butadiene	N.D.	.2	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.5	ppb (v)					
Acrolein	N.D.	.2	ppb (v)					
1,1-Dichloroethene	N.D.	5	ppb (v)					
Freon 113	N.D.	1	ppb (v)					
Acetone	N.D.	.2	ppb (v)					
Methyl Iodide	N.D.	.5	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.2	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.5	ppb (v)					
2-Butanone	N.D.	.2	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)	106		54-174		
1,1,1-Trichloroethane	N.D.	.2	ppb (v)					
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)	90		51-163		
Benzene	N.D.	.2	ppb (v)					
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)	97		56-140		
Trichloroethene	N.D.	.2	ppb (v)					
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Client Name: DaimlerChrysler Corporation
 Reported: 08/15/02 at 05:50 PM

Group Number: 817558

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	94		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					
Batch number: A022171AD	Sample number(s): 3870892-3870899							
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	127		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Client Name: DaimlerChrysler Corporation

Group Number: 817558

Reported: 08/15/02 at 05:50 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	106		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	90		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	97		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	94		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
BromOform	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Client Name: DaimlerChrysler Corporation

Group Number: 817558

Reported: 08/15/02 at 05:50 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					
Batch number: A022171AE	Sample number(s): 3870900							
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	127		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	.2	ppb (v)					
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Client Name: DaimlerChrysler Corporation
 Reported: 08/15/02 at 05:50 PM

Group Number: 817558

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	106		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	90		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	97		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	94		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





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Page 6 of 6

Client Name: DaimlerChrysler Corporation
Reported: 08/15/02 at 05:50 PM

Group Number: 817558

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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2216 Rev 9/11/00

10160/3869086-97/817262

DAIMLERCHRYSLER

Chain-of-Custody

1670 B

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601
Phone Number (717) 656-2300
Fax Number (717) 656-2681

Project Name DAYTON THERMAL 40-B
Site Location DAYTON OHIO
Site Code SC0001
RFA Number ETO 2031
DaimlerChrysler PM STAN

Consultant EARTH TECH
Address 4135 TECHNOLOGY PKWY
SHEBOYGAN WI 53083
Consultant PM ROB STINSON
Phone 920-458-8711 Fax 920-458-0550

Turn-around Time Request: (circle)

24 calendar hrs
48 calendar hrs
7 calendar days
14 calendar days

Data Package Deliverables: (circle)

DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes

S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed - Sediment
O - Other (specify) _____

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers
11-S	7/3/02	11:50	G	A	1
J-8/A-S	"	12:20	G	A	1
K-6/5-S	"	12:45	G	A	1
K-7/6-S	"	12:55	G	A	1
K-2/3-S	"	11:15	G	A	1
K-7/8-S	"	12:35	G	A	1
I-3-S	"	11:57	G	A	1
K-6/7-S	"	12:15	G	A	1
JK-3-S	"	11:35	C	A	1
K-6/7-S	"	11:02	G	A	1

Rob Stinson,
for
this set

Labelled K-6-7/AN@LH

Sampler(s) <u>TOM BREWER</u>	Cooler ID #		Samples Relinquished under Airbill No.				Temperature (corrected) <u>N/A</u>	
	Relinquished by: <u>TOM BREWER</u>	Date: <u>7/3/02</u>	Time:	Received by: <u>FED EX</u>	Date:	Time:	Custody Seal Intact? Yes No	
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: <u>[Signature]</u>	Date: <u>8/1/02</u>	Time: <u>0925</u>	Custody Seal Intact? <u>Yes</u> No	

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 48200-51, Auburn Hills, Michigan 48326-2757

Distribution White copy Data package Yellow Retained by laboratory Pink Retained by sampler

K-1-S

" 11:10 G A I
11:20 G A I

K-8/9-S



ANALYTICAL RESULTS

Prepared for

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 817262. Samples arrived at the laboratory on Thursday, August 01, 2002. The PO# for this group is N99C403749-B.

Client Description

11-S Tedlar Bag Grab Air Sample
J-8/9-S Tedlar Bag Grab Air Sample
K-6/5-S Tedlar Bag Grab Air Sample
K-7/6-S Tedlar Bag Grab Air Sample
K-2/3-S Tedlar Bag Grab Air Sample
K-7/8-S Tedlar Bag Grab Air Sample
I-3-S Tedlar Bag Grab Air Sample
K-6-7 Tedlar Bag Grab Air Sample
JK-3-S Tedlar Bag Grab Air Sample
K-6/7-S Tedlar Bag Grab Air Sample
K-1-S Tedlar Bag Grab Air Sample
K-8/9-S Tedlar Bag Grab Air Sample

Lancaster Labs Number

3869086
3869087
3869088
3869089
3869090
3869091
3869092
3869093
3869094
3869095
3869096
3869097

1 COPY TO Earth Tech
1 COPY TO Earth Tech
1 COPY TO Earth Tech

Attn: Ms. Lisa Smith
Attn: Mr. Rob Stenson
Attn: Mr. Jay Erickson



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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Michele M. Turner

Michele M. Turner
Manager



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Lancaster Laboratories Sample No. AQ 3869086

Collected: 07/31/2002 11:50 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

11-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

11-S- SDG#: DCK25-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
---------	---------------	------------	--------------------	------------------------------------	-------	-----------------

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/02/2002 19:12	George M Main	2.5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 18:29	George M Main	20
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 19:12	George M Main	2.5



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Page 2 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: 11-S- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869086 Date Analyzed: 08/02/02 Time Analyzed: 19:12
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\0801008.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.10	7	J D
64-17-5	Ethanol	9.51	37	J D
67-63-0	Isopropyl Alcohol	10.85	44	J D
107-83-5	Pentane, 2-methyl-	11.21	17	J D
	Unknown aliphatic hydrocarbon	20.45	19	J D
	Unknown aliphatic hydrocarbon	21.63	25	J D
127-19-5	Acetamide, N,N-dimethyl-	24.76	6	J D
	Unknown aliphatic hydrocarbon	26.24	6	J D
	Unknown aliphatic hydrocarbon	26.48	18	J D
	Unknown aliphatic hydrocarbon	27.44	13	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.. 11-S- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID 3869086 Date Analyzed: 08/02/02 Time Analyzed: 19:12
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\0801008 D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	0.6	J D
75-71-8	Dichlorodifluoromethane	4	D
75-45-6	Chlorodifluoromethane	3	U
76-14-2	Freon 114	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-43-4	Dichlorofluoromethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
109-66-0	Pentane	2	J D
107-02-8	Acrolein	5	D
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	Freon 113	1	U
67-64-1	Acetone	24	D
74-88-4	Methyl Iodide	0.5	U
75-15-0	Carbon Disulfide	9	D
75-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	3	D
75-65-0	tert-Butyl Alcohol	0.5	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	1	J D
1634-04-4	Methyl t-Butyl Ether	0.5	U
110-54-3	Hexane	4	D
75-34-3	1,1-Dichloroethane	1	J D
108-05-4	Vinyl Acetate	0.5	U
156-59-2	cis-1,2-Dichloroethene	31	D
78-93-3	2-Butanone	18	D
141-78-6	Ethyl Acetate	0.5	U
96-33-3	Methyl Acrylate	0.5	U
67-66-3	Chloroform	5	D
71-55-6	1,1,1-Trichloroethane	8	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 11-S- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID 3869086 Date Analyzed: 08/02/02 Time Analyzed: 19:12
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor 2.5
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\0801008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	0.9	J D
142-82-5	Heptane	1	J D
79-01-6	Trichloroethene	610	D
140-88-5	Ethyl Acrylate	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
80-62-6	Methyl Methacrylate	0.5	U
74-95-3	Dibromomethane	0.5	U
123-91-1	1,4-Dioxane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	29	D
111-65-9	Octane	2	J D
10061-02-6	trans-1,3-Dichloropropene	0.5	U
97-63-2	Ethyl Methacrylate	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	880	D
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	4	D
1330-20-7	m/p-Xylene	16	D
95-47-6	o-Xylene	6	D
100-42-5	Styrene	1	J D
75-25-2	Bromoform	0.5	U
98-82-8	Cumene	0.6	J D
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
108-86-1	Bromobenzene	0.5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No. 11-S- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869086 Date Analyzed: 08/02/02 Time Analyzed: 19 12
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\0801008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	4	D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	6	D
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
100-44-7	Benzyl chloride	0.5	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	1	U

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869087

Collected: 07/31/2002 12:20 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

J-8/9-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

J8-9S SDG#: DCK25-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/02/2002 19:56	George M Main	12
07869	TO 14 VOA Ext List Tedlar	EPA TO14	1	08/02/2002 20:39	George M Main	2
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 19:56	George M Main	12
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 20:39	George M Main	2



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: J8-9S Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID: 3869087 Date Analyzed: 08/02/02 Time Analyzed 20:39
Injection Volume: 125 cc Nominal Volume: 250 cc Dilution Factor: 2.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1001010.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
64-17-5	Ethanol	9.51	14	J D
67-63-0	Isopropyl Alcohol	10.84	21	J D
	Unknown aliphatic hydrocarbon	24.30	8	J D
	Unknown siloxane	24.43	7	J D
108-94-1	Cyclohexanone	24.56	10	J D
	Unknown aliphatic hydrocarbon	25.71	7	J D
	Unknown aliphatic hydrocarbon	26.23	21	J D
	Unknown aliphatic hydrocarbon	26.49	14	J D
	Unknown aliphatic hydrocarbon	26.70	16	J D
	Unknown aliphatic hydrocarbon	27.44	9	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: J8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869087 Date Analyzed: 08/02/02 Time Analyzed: 20:39
Injection Volume 125 cc Nominal Volume: 250 cc Dilution Factor: 2.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1001010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	3	D
75-71-8	Dichlorodifluoromethane	2	J D
75-45-6	Chlorodifluoromethane	60	D
76-14-2	Freon 114	0.4	U
74-87-3	Chloromethane	0.4	U
75-01-4	Vinyl Chloride	0.4	U
106-99-0	1,3-Butadiene	2	U
74-83-9	Bromomethane	0.4	U
75-00-3	Chloroethane	0.4	U
75-43-4	Dichlorofluoromethane	0.4	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	2	J D
107-02-8	Acrolein	5	D
75-35-4	1,1-Dichloroethene	14	D
76-13-1	Freon 113	11	D
67-64-1	Acetone	22	D
74-88-4	Methyl Iodide	0.4	U
75-15-0	Carbon Disulfide	6	D
75-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	3	D
75-65-0	tert-Butyl Alcohol	0.4	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	7	D
1634-04-4	Methyl t-Butyl Ether	0.4	U
110-54-3	Hexane	1	J D
75-34-3	1,1-Dichloroethane	53	D
108-05-4	Vinyl Acetate	0.4	U
156-59-2	cis-1,2-Dichloroethene	85	D
78-93-3	2-Butanone	16	D
141-78-6	Ethyl Acetate	0.4	U
96-33-3	Methyl Acrylate	0.4	U
67-66-3	Chloroform	3	D
71-55-6	1,1,1-Trichloroethane	370	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No J8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869087 Date Analyzed: 08/02/02 Time Analyzed: 20:39
Injection Volume: 125 cc Nominal Volume: 250 cc Dilution Factor: 2.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1001010 D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.4	U
107-06-2	1,2-Dichloroethane	0.4	U
71-43-2	Benzene	2	D
540-84-1	Isooctane	0.5	J D
142-82-5	Heptane	0.6	J D
79-01-6	Trichloroethene	240	D
140-88-5	Ethyl Acrylate	0.4	U
78-87-5	1,2-Dichloropropane	0.4	U
80-62-6	Methyl Methacrylate	0.4	U
74-95-3	Dibromomethane	0.4	U
123-91-1	1,4-Dioxane	0.4	U
75-27-4	Bromodichloromethane	0.4	J D
10061-01-5	cis-1,3-Dichloropropene	0.4	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	24	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	0.4	U
97-63-2	Ethyl Methacrylate	0.4	U
79-00-5	1,1,2-Trichloroethane	0.4	U
127-18-4	Tetrachloroethene	350	D
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	0.4	U
106-93-4	1,2-Dibromoethane	0.4	U
108-90-7	Chlorobenzene	0.4	U
630-20-6	1,1,1,2-Tetrachloroethane	0.4	U
100-41-4	Ethylbenzene	2	D
1330-20-7	m/p-Xylene	8	D
95-47-6	o-Xylene	3	D
100-42-5	Styrene	0.9	J D
75-25-2	Bromoform	0.4	U
98-82-8	Cumene	0.4	U
79-34-5	1,1,2,2-Tetrachloroethane	0.4	U
96-18-4	1,2,3-Trichloropropane	0.4	U
108-86-1	Bromobenzene	0.4	U

U = Compound was undetected at the specified limit of quantitation
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No. J8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869087 Date Analyzed: 08/02/02 Time Analyzed: 20:39
Injection Volume: 125 cc Nominal Volume: 250 cc Dilution Factor 2.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1001010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3		D
108-67-8	1,3,5-Trimethylbenzene	1		J D
98-83-9	Alpha Methyl Styrene	0.4		U
95-63-6	1,2,4-Trimethylbenzene	4		D
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
100-44-7	Benzyl chloride	0.4		U
95-50-1	1,2-Dichlorobenzene	1		U
67-72-1	Hexachloroethane	0.4		U
120-82-1	1,2,4-Trichlorobenzene	2		U
87-68-3	Hexachlorobutadiene	1		U

U = Compound was undetected at the specified limit of quantitation
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869088

Collected: 07/31/2002 12:45 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-6/5-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K6-5S SDG#: DCK25-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/02/2002 22:08	George M Main	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 21:22	George M Main	67
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 22:08	George M Main	10



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K6-5S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869088 Date Analyzed: 08/02/02 Time Analyzed: 22:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1201012.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.11	100	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.58	30	J D
67-63-0	Isopropyl Alcohol	10.82	30	J D
107-83-5	Pentane, 2-methyl-	11.21	34	J D
	Unknown siloxane	24.43	430	J D
127-19-5	Acetamide, N,N-dimethyl-	24.74	55	J D
	Unknown aliphatic hydrocarbon	26.48	73	J D
	Unknown aliphatic hydrocarbon	27.44	38	J D
	Unknown siloxane	27.93	280	J D
	Unknown siloxane	31.34	25	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869088 Date Analyzed: 08/02/02 Time Analyzed: 22:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1201012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	4	J D
75-71-8	Dichlorodifluoromethane	6	J D
75-45-6	Chlorodifluoromethane	54	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	2	J D
109-66-0	Pentane	21	D
107-02-8	Acrolein	10	D
75-35-4	1,1-Dichloroethene	4	J D
76-13-1	Freon 113	58	D
67-64-1	Acetone	76	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	34	D
75-05-8	Acetonitrile	5	U
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	37	D
75-65-0	tert-Butyl Alcohol	54	D
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	8	J D
1634-04-4	Methyl t-Butyl Ether	560	D
110-54-3	Hexane	19	D
75-34-3	1,1-Dichloroethane	67	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	490	D
78-93-3	2-Butanone	42	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	13	D
71-55-6	1,1,1-Trichloroethane	240	D

U = Compound was undetected at the specified limit of quantitation.
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J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869088 Date Analyzed: 08/02/02 Time Analyzed: 22:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1201012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2		U
107-06-2	1,2-Dichloroethane	2		U
71-43-2	Benzene	87		D
540-84-1	Isooctane	6		J D
142-82-5	Heptane	2		J D
79-01-6	Trichloroethene	3600		D
140-88-5	Ethyl Acrylate	2		U
78-87-5	1,2-Dichloropropane	2		U
80-62-6	Methyl Methacrylate	2		U
74-95-3	Dibromomethane	2		U
123-91-1	1,4-Dioxane	2		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
108-10-1	4-Methyl-2-Pentanone	5		U
108-88-3	Toluene	620		D
111-65-9	Octane	500		D
10061-02-6	trans-1,3-Dichloropropene	2		U
97-63-2	Ethyl Methacrylate	2		U
79-00-5	1,1,2-Trichloroethane	2		U
127-18-4	Tetrachloroethene	2100		D
591-78-6	2-Hexanone	5		U
124-48-1	Dibromochloromethane	2		U
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	2		U
630-20-6	1,1,1,2-Tetrachloroethane	2		U
100-41-4	Ethylbenzene	490		D
1330-20-7	m/p-Xylene	850		D
95-47-6	o-Xylene	430		D
100-42-5	Styrene	2		U
75-25-2	Bromoform	2		U
98-82-8	Cumene	2		U
79-34-5	1,1,2,2-Tetrachloroethane	2		U
96-18-4	1,2,3-Trichloropropane	2		U
108-86-1	Bromobenzene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-5S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869088 Date Analyzed: 08/02/02 Time Analyzed: 22:08
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1201012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	6	J D
108-67-8	1,3,5-Trimethylbenzene	4	J D
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	8	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869089

Collected: 07/31/2002 12:55 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-7/6-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K7-6S SDG#: DCK25-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/02/2002 23:37	George M Main	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 22:51	George M Main	67
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/02/2002 23:37	George M Main	10



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VOLATILE ORGANICS IN AIR
 TEDLAR BAG SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K7-6S Date Collected: 07/31/02 Date Received: 08/01/02
 Lab Sample ID: 3869089 Date Analyzed: 08/02/02 Time Analyzed: 23:37
 Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1401014.D

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.11	79	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.57	54	J D
67-63-0	Isopropyl Alcohol	10.81	68	J D
107-83-5	Pentane, 2-methyl-	11.21	28	J D
	Unknown siloxane	24.43	38	J D
127-19-5	Acetamide, N,N-dimethyl-	24.78	84	J D
	Unknown aliphatic hydrocarbon	26.48	70	J D
	Unknown aliphatic hydrocarbon	27.43	33	J D
	Unknown siloxane	27.93	120	J D
	Unknown siloxane	31.34	31	J D

B = Compound was found in method blank. D = analysis of diluted sample.
 J = Estimated concentration assuming identical response factor to that
 of the internal standard with retention time closest to the TIC



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-6S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869089 Date Analyzed: 08/02/02 Time Analyzed: 23:37
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS · MDL ppb(v)	Q
115-07-1	Propene	5	J D
75-71-8	Dichlorodifluoromethane	5	J D
75-45-6	Chlorodifluoromethane	99	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	3	J D
109-66-0	Pentane	15	D
107-02-8	Acrolein	11	D
75-35-4	1,1-Dichloroethene	26	D
76-13-1	Freon 113	35	D
67-64-1	Acetone	83	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	18	D
75-05-8	Acetonitrile	5	U
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	36	D
75-65-0	tert-Butyl Alcohol	38	D
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	8	J D
1634-04-4	Methyl t-Butyl Ether	170	D
110-54-3	Hexane	9	J D
75-34-3	1,1-Dichloroethane	80	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	300	D
78-93-3	2-Butanone	41	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	8	J D
71-55-6	1,1,1-Trichloroethane	730	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-6S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID 3869089 Date Analyzed: 08/02/02 Time Analyzed: 23:37
Injection Volume 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2		U
107-06-2	1,2-Dichloroethane	2		U
71-43-2	Benzene	25		D
540-84-1	Isooctane	3		J D
142-82-5	Heptane	2		U
79-01-6	Trichloroethene	3300		D
140-88-5	Ethyl Acrylate	2		U
78-87-5	1,2-Dichloropropane	2		U
80-62-6	Methyl Methacrylate	2		U
74-95-3	Dibromomethane	2		U
123-91-1	1,4-Dioxane	2		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
108-10-1	4-Methyl-2-Pentanone	5		U
108-88-3	Toluene	220		D
111-65-9	Octane	160		D
10061-02-6	trans-1,3-Dichloropropene	2		U
97-63-2	Ethyl Methacrylate	2		U
79-00-5	1,1,2-Trichloroethane	2		U
127-18-4	Tetrachloroethene	1300		D
591-78-6	2-Hexanone	5		U
124-48-1	Dibromochloromethane	2		U
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	2		U
630-20-6	1,1,1,2-Tetrachloroethane	2		U
100-41-4	Ethylbenzene	160		D
1330-20-7	m/p-Xylene	280		D
95-47-6	o-Xylene	140		D
100-42-5	Styrene	8		J D
75-25-2	Bromoform	2		U
98-82-8	Cumene	2		U
79-34-5	1,1,1,2,2-Tetrachloroethane	2		U
96-18-4	1,2,3-Trichloropropane	2		U
108-86-1	Bromobenzene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No. K7-6S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869089 Date Analyzed: 08/02/02 Time Analyzed: 23 37
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG02\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	7	J D
108-67-8	1,3,5-Trimethylbenzene	3	J D
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	8	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869090

Collected: 07/31/2002 11:15 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-2/3-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K2-3S SDG#: DCK25-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext List Tedlar	EPA TO14	1	08/05/2002 22:31	George M Main	2.5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 22:31	George M Main	2.5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/11/2002 12:40	George M Main	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K2-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID 3869090 Date Analyzed: 08/05/02 Time Analyzed: 22:31
Injection Volume 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2301012.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
64-17-5	Ethanol	9.87	17	J D
67-63-0	Isopropyl Alcohol	11.23	22	J D
	Unknown aliphatic hydrocarbon	20.49	5	J D
	Unknown aliphatic hydrocarbon	21.68	7	J D
	Unknown siloxane	24.48	12	J D
	Unknown aliphatic hydrocarbon	26.27	16	J D
	Unknown aliphatic hydrocarbon	26.52	23	J D
	Unknown aliphatic hydrocarbon	26.73	7	J D
	Unknown aliphatic hydrocarbon	27.48	16	J D
	Unknown siloxane	27.97	11	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869090 Date Analyzed: 08/05/02 Time Analyzed: 22:31
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS. MDL ppb(v)	Q
115-07-1	Propene	5	D
75-71-8	Dichlorodifluoromethane	4	D
75-45-6	Chlorodifluoromethane	3	U
76-14-2	Freon 114	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-43-4	Dichlorofluoromethane	0.5	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	2	J D
107-02-8	Acrolein	3	D
75-35-4	1,1-Dichloroethene	0.5	J D
76-13-1	Freon 113	15	D
67-64-1	Acetone	20	D
74-88-4	Methyl Iodide	0.5	U
75-15-0	Carbon Disulfide	9	D
75-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	6	D
75-65-0	tert-Butyl Alcohol	0.5	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	4	D
1634-04-4	Methyl t-Butyl Ether	0.5	U
110-54-3	Hexane	2	J D
75-34-3	1,1-Dichloroethane	3	D
108-05-4	Vinyl Acetate	0.5	U
156-59-2	cis-1,2-Dichloroethene	81	D
78-93-3	2-Butanone	12	D
141-78-6	Ethyl Acetate	0.5	U
96-33-3	Methyl Acrylate	0.5	U
67-66-3	Chloroform	0.9	J D
71-55-6	1,1,1-Trichloroethane	16	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

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NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869090 Date Analyzed: 08/05/02 Time Analyzed: 22:31
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	0.7	J D
142-82-5	Heptane	0.8	J D
79-01-6	Trichloroethene	370	D
140-88-5	Ethyl Acrylate	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
80-62-6	Methyl Methacrylate	0.5	U
74-95-3	Dibromomethane	0.5	U
123-91-1	1,4-Dioxane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	25	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	0.5	U
97-63-2	Ethyl Methacrylate	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	36	D
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	4	D
1330-20-7	m/p-Xylene	14	D
95-47-6	o-Xylene	5	D
100-42-5	Styrene	0.8	J D
75-25-2	Bromoform	0.5	U
98-82-8	Cumene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
108-86-1	Bromobenzene	0.5	U

U = Compound was undetected at the specified limit of quantitation.

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Where quality is a science.

Page 5 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K2-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869090 Date Analyzed: 08/05/02 Time Analyzed: 22:31
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	5	D
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
100-44-7	Benzyl chloride	0.5	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	1	U

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2216 Rev 9/11/00



Lancaster Laboratories Sample No. AQ 3869091

Collected: 07/31/2002 12:35 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:58

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-7/8-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K7-8S SDG#: DCK25-06

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 23:13	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 23:13	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/11/2002 13:22	George M Main	25



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K7-8S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869091 Date Analyzed: 08/05/02 Time Analyzed: 23:13
Injection Volume 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2401013.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
64-17-5	Ethanol	9.72	44	J D
67-63-0	Isopropyl Alcohol	11.12	45	J D
107-83-5	Pentane, 2-methyl-	11.33	9	J D
109-99-9	Furan, tetrahydro-	15.09	13	J D
	Unknown aliphatic hydrocarbon	20.48	10	J D
	Unknown aliphatic hydrocarbon	21.67	15	J D
108-94-1	Cyclohexanone	24.61	8	J D
	Unknown aliphatic hydrocarbon	26.26	8	J D
	Unknown aliphatic hydrocarbon	26.50	16	J D
	Unknown aliphatic hydrocarbon	27.46	11	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-8S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869091 Date Analyzed: 08/05/02 Time Analyzed: 23:13
Injection Volume 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2401013.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	2	J D
75-71-8	Dichlorodifluoromethane	1	U
75-45-6	Chlorodifluoromethane	19	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	U
109-66-0	Pentane	3	J D
107-02-8	Acrolein	5	J D
75-35-4	1,1-Dichloroethene	19	D
76-13-1	Freon 113	14	D
67-64-1	Acetone	27	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	11	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	3	J D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	4	J D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	4	J D
75-34-3	1,1-Dichloroethane	26	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	210	D
78-93-3	2-Butanone	19	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	8	D
71-55-6	1,1,1-Trichloroethane	300	D

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-8S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869091 Date Analyzed: 08/05/02 Time Analyzed: 23:13
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\AUG05\2401013.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	4	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	J D
79-01-6	Trichloroethene	2300	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	2	J D
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	33	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	190	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	4	J D
1330-20-7	m/p-Xylene	14	D
95-47-6	o-Xylene	5	J D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K7-8S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869091 Date Analyzed: 08/05/02 Time Analyzed: 23:13
Injection Volume: 50 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2401013.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	4	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

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J = Compound was detected, but below the limit of quantitation.

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Lancaster Laboratories Sample No. AQ 3869092

Collected: 07/31/2002 11:57 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

I-3-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

1-3-S SDG#: DCK25-07

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
					Limit	Factor

Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution
						Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 12 50	George M Main	100
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 13.36	George M Main	10
07870	TO 14 VOA Ext List cont	EPA TO14	1	08/05/2002 12:50	George M Main	100
	Tedlar					
07870	TO 14 VOA Ext List cont	EPA TO14	1	08/05/2002 13:36	George M Main	10
	Tedlar					



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VOLATILE ORGANICS IN AIR
 TEDLAR BAG SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: 1-3-S Date Collected: 07/31/02 Date Received: 08/01/02
 Lab Sample ID: 3869092 Date Analyzed: 08/05/02 Time Analyzed: 13:36
 Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
 Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\AUG05\1101007.D
 UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.14	100	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.61	72	J D
67-63-0	Isopropyl Alcohol	10.85	49	J D
	Unknown siloxane	20.19	50	J D
	Unknown siloxane	24.45	520	J D
	Unknown aliphatic hydrocarbon	26.25	140	J D
	Unknown aliphatic hydrocarbon	26.49	94	J D
	Unknown aliphatic hydrocarbon	26.71	70	J D
	Unknown aliphatic hydrocarbon	27.45	52	J D
	Unknown siloxane	27.94	310	J D

B = Compound was found in method blank. D = analysis of diluted sample.
 J = Estimated concentration assuming identical response factor to that
 of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 1-3-S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869092 Date Analyzed: 08/05/02 Time Analyzed: 13:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1101007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	9	J D
75-71-8	Dichlorodifluoromethane	2	U
75-45-6	Chlorodifluoromethane	56	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	3	J D
109-66-0	Pentane	27	D
107-02-8	Acrolein	8	J D
75-35-4	1,1-Dichloroethene	32	D
76-13-1	Freon 113	58	D
67-64-1	Acetone	65	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	21	D
75-05-8	Acetonitrile	5	U
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	25	D
75-65-0	tert-Butyl Alcohol	67	D
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	12	D
1634-04-4	Methyl t-Butyl Ether	600	D
110-54-3	Hexane	33	D
75-34-3	1,1-Dichloroethane	190	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	510	D
78-93-3	2-Butanone	32	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	10	D
71-55-6	1,1,1-Trichloroethane	1400	D

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 1-3-S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869092 Date Analyzed: 08/05/02 Time Analyzed: 13:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1101007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	130	D
540-84-1	Isooctane	2	J D
142-82-5	Heptane	2	U
79-01-6	Trichloroethene	2200	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	710	D
111-65-9	Octane	720	D
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	3800	D
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	630	D
1330-20-7	m/p-Xylene	990	D
95-47-6	o-Xylene	470	D
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : 1-3-S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869092 Date Analyzed: 08/05/02 Time Analyzed: 13:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1101007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	U
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	5	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample



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Lancaster Laboratories Sample No. AQ 3869093

Collected: 07/31/2002 12:15 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-6-7 Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-6-7 SDG#: DCK25-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 15:09	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 14:21	George M Main	33
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 15:09	George M Main	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-6-7 Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869093 Date Analyzed: 08/05/02 Time Analyzed: 15:09
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1301002.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R T.	ESTIMATED CONCENTRATION	Q
	Unknown siloxane	24.44	12	J D
108-94-1	Cyclohexanone	24.57	26	J D
127-19-5	Acetamide, N,N-dimethyl-	24.84	31	J D
	Unknown alkene	25.57	11	J D
	Unknown aliphatic hydrocarbon	26.25	40	J D
	Unknown aliphatic hydrocarbon	26.49	25	J D
	Unknown aliphatic hydrocarbon	26.71	35	J D
	Unknown aliphatic hydrocarbon	27.45	13	J D
	Unknown siloxane	27.94	36	J D
	Unknown siloxane	31.35	28	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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Page 3 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-6-7 Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869093 Date Analyzed: 08/05/02 Time Analyzed: 15:09
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1301002.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
115-07-1	Propene	16		D
75-71-8	Dichlorodifluoromethane	3		J D
75-45-6	Chlorodifluoromethane	46		D
76-14-2	Freon 114	1		U
74-87-3	Chloromethane	1		U
75-01-4	Vinyl Chloride	8		D
106-99-0	1,3-Butadiene	5		U
74-83-9	Bromomethane	1		U
75-00-3	Chloroethane	6		D
75-43-4	Dichlorofluoromethane	1		U
75-69-4	Trichlorofluoromethane	1		J D
109-66-0	Pentane	9		D
107-02-8	Acrolein	8		D
75-35-4	1,1-Dichloroethene	3		J D
76-13-1	Freon 113	180		D
67-64-1	Acetone	56		D
74-88-4	Methyl Iodide	1		U
75-15-0	Carbon Disulfide	13		D
75-05-8	Acetonitrile	3		U
107-05-1	3-Chloropropene	3		U
75-09-2	Methylene Chloride	15		D
75-65-0	tert-Butyl Alcohol	46		D
107-13-1	Acrylonitrile	3		U
156-60-5	trans-1,2-Dichloroethene	7		D
1634-04-4	Methyl t-Butyl Ether	460		D
110-54-3	Hexane	12		D
75-34-3	1,1-Dichloroethane	120		D
108-05-4	Vinyl Acetate	1		U
156-59-2	cis-1,2-Dichloroethene	280		D
78-93-3	2-Butanone	180		D
141-78-6	Ethyl Acetate	1		U
96-33-3	Methyl Acrylate	1		U
67-66-3	Chloroform	11		D
71-55-6	1,1,1-Trichloroethane	240		D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-6-7 Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID: 3869093 Date Analyzed: 08/05/02 Time Analyzed: 15:09
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1301002.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	46	D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	880	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	360	D
111-65-9	Octane	330	D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1900	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	360	D
1330-20-7	m/p-Xylene	610	D
95-47-6	o-Xylene	300	D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No. K-6-7 Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID: 3869093 Date Analyzed: 08/05/02 Time Analyzed 15:09
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1301002 D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	1	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	4	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869094

Collected: 07/31/2002 11:35 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

JK-3-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

JK-3S SDG#: DCK25-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 16:37	George M Main	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 15:51	George M Main	33
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 16:37	George M Main	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No. JK-3S Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID 3869094 Date Analyzed: 08/05/02 Time Analyzed 16:37
Injection Volume 500 cc Nominal Volume 250 cc Dilution Factor: 5 0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1501004.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.14	26	J D
67-63-0	Isopropyl Alcohol	10.86	16	J D
127-19-5	Acetamide, N,N-dimethyl-	24.80	38	J D
	Unknown aliphatic hydrocarbon	26.25	22	J D
	Unknown aliphatic hydrocarbon	26.49	35	J D
	Unknown aliphatic hydrocarbon	26.72	18	J D
104-76-7	1-Hexanol, 2-ethyl-	27.03	12	J D
	Unknown aliphatic hydrocarbon	27.45	19	J D
	Unknown siloxane	27.94	48	J D
	Unknown siloxane	31.35	24	J D

B = Compound was found in method blank. D = analysis of diluted sample
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: JK-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869094 Date Analyzed: 08/05/02 Time Analyzed: 16:37
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1501004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	2	J D
75-71-8	Dichlorodifluoromethane	2	J D
75-45-6	Chlorodifluoromethane	22	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	11	D
107-02-8	Acrolein	8	D
75-35-4	1,1-Dichloroethene	1	U
76-13-1	Freon 113	9	D
67-64-1	Acetone	53	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	13	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	16	D
75-65-0	tert-Butyl Alcohol	37	D
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl t-Butyl Ether	430	D
110-54-3	Hexane	12	D
75-34-3	1,1-Dichloroethane	17	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	92	D
78-93-3	2-Butanone	29	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	3	J D
71-55-6	1,1,1-Trichloroethane	55	D

U = Compound was undetected at the specified limit of quantitation
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: JK-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869094 Date Analyzed: 08/05/02 Time Analyzed: 16:37
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1501004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	37	D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	810	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	320	D
111-65-9	Octane	290	D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1300	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	340	D
1330-20-7	m/p-Xylene	560	D
95-47-6	o-Xylene	290	D
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: JK-3S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869094 Date Analyzed: 08/05/02 Time Analyzed: 16:37
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1501004.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	4	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	6	D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869095

Collected: 07/31/2002 11:02 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-6/7-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K6-7S SDG#: DCK25-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 17:17	George M Main	100
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 18:03	George M Main	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 17:17	George M Main	100
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 18:03	George M Main	10


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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K6-7- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869095 Date Analyzed: 08/05/02 Time Analyzed: 18:03
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1701006.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.14	73	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.62	59	J D
67-63-0	Isopropyl Alcohol	10.88	130	J D
107-83-5	Pentane, 2-methyl-	11.25	40	J D
127-19-5	Acetamide, N,N-dimethyl-	24.82	120	J D
	Unknown aliphatic hydrocarbon	26.25	51	J D
	Unknown aliphatic hydrocarbon	26.49	100	J D
	Unknown aliphatic hydrocarbon	27.45	97	J D
	Unknown siloxane	27.94	64	J D
	Unknown siloxane	31.36	33	J D

B = Compound was found in method blank D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7- Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID: 3869095 Date Analyzed: 08/05/02 Time Analyzed: 18:03
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10 0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	7	J D
75-71-8	Dichlorodifluoromethane	2	U
75-45-6	Chlorodifluoromethane	42	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	12	D
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	4	J D
109-66-0	Pentane	16	D
107-02-8	Acrolein	17	D
75-35-4	1,1-Dichloroethene	78	D
76-13-1	Freon 113	51	D
67-64-1	Acetone	120	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	37	D
75-05-8	Acetonitrile	5	U
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	30	D
75-65-0	tert-Butyl Alcohol	34	D
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	13	D
1634-04-4	Methyl t-Butyl Ether	300	D
110-54-3	Hexane	17	D
75-34-3	1,1-Dichloroethane	180	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	490	D
78-93-3	2-Butanone	22	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	6	J D
71-55-6	1,1,1-Trichloroethane	2500	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID 3869095 Date Analyzed 08/05/02 Time Analyzed: 18:03
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\AUG05\1701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2		U
107-06-2	1,2-Dichloroethane	2		U
71-43-2	Benzene	29		D
540-84-1	Isooctane	2		U
142-82-5	Heptane	2		U
79-01-6	Trichloroethene	5300		D
140-88-5	Ethyl Acrylate	2		U
78-87-5	1,2-Dichloropropane	2		U
80-62-6	Methyl Methacrylate	2		U
74-95-3	Dibromomethane	2		U
123-91-1	1,4-Dioxane	2		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
108-10-1	4-Methyl-2-Pentanone	5		U
108-88-3	Toluene	300		D
111-65-9	Octane	230		D
10061-02-6	trans-1,3-Dichloropropene	2		U
97-63-2	Ethyl Methacrylate	2		U
79-00-5	1,1,2-Trichloroethane	2		J D
127-18-4	Tetrachloroethene	1500		D
591-78-6	2-Hexanone	5		U
124-48-1	Dibromochloromethane	2		U
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	2		U
630-20-6	1,1,1,2-Tetrachloroethane	2		U
100-41-4	Ethylbenzene	250		D
1330-20-7	m/p-Xylene	460		D
95-47-6	o-Xylene	220		D
100-42-5	Styrene	2		U
75-25-2	Bromoform	2		U
98-82-8	Cumene	2		U
79-34-5	1,1,2,2-Tetrachloroethane	2		U
96-18-4	1,2,3-Trichloropropane	2		U
108-86-1	Bromobenzene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K6-7- Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869095 Date Analyzed: 08/05/02 Time Analyzed: 18:03
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	6	J D
108-67-8	1,3,5-Trimethylbenzene	4	J D
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	10	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	9	J D
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3869096

Collected: 07/31/2002 11:10 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-1-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K-1-S SDG#: DCK25-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 19:32	George M Main	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 18:46	George M Main	167
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 19:32	George M Main	25



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VOLATILE ORGANICS IN AIR
 TEDLAR BAG SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K-1-S Date Collected 07/31/02 Date Received: 08/01/02
 Lab Sample ID: 3869096 Date Analyzed: 08/05/02 Time Analyzed: 19:32
 Injection Volume: 500 cc Nominal Volume 250 cc Dilution Factor: 25.0
 Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\AUG05\1901008.D
 UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.14	120	J D
67-63-0	Isopropyl Alcohol	10.88	270	J D
107-83-5	Pentane, 2-methyl-	11.26	88	J D
127-19-5	Acetamide, N,N-dimethyl-	24.81	430	J D
	Unknown aliphatic hydrocarbon	26.49	370	J D
104-76-7	1-Hexanol, 2-ethyl-	27.03	93	J D
	Unknown aliphatic hydrocarbon	27.45	360	J D
	Unknown aliphatic hydrocarbon	27.57	96	J D
	Unknown siloxane	27.94	280	J D
	Unknown siloxane	31.35	110	J D

B = Compound was found in method blank. D = analysis of diluted sample.
 J = Estimated concentration assuming identical response factor to that
 of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-1-S Date Collected 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869096 Date Analyzed: 08/05/02 Time Analyzed: 19:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS. MDL ppb(v)	Q
115-07-1	Propene	11	J D
75-71-8	Dichlorodifluoromethane	5	U
75-45-6	Chlorodifluoromethane	70	D
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
106-99-0	1,3-Butadiene	25	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-43-4	Dichlorofluoromethane	5	U
75-69-4	Trichlorofluoromethane	7	J D
109-66-0	Pentane	35	D
107-02-8	Acrolein	42	D
75-35-4	1,1-Dichloroethene	34	D
76-13-1	Freon 113	100	D
67-64-1	Acetone	250	D
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon Disulfide	93	D
75-05-8	Acetonitrile	13	U
107-05-1	3-Chloropropene	13	U
75-09-2	Methylene Chloride	73	D
75-65-0	tert-Butyl Alcohol	58	D
107-13-1	Acrylonitrile	13	U
156-60-5	trans-1,2-Dichloroethene	22	J D
1634-04-4	Methyl t-Butyl Ether	590	D
110-54-3	Hexane	29	D
75-34-3	1,1-Dichloroethane	150	D
108-05-4	Vinyl Acetate	5	U
156-59-2	cis-1,2-Dichloroethene	870	D
78-93-3	2-Butanone	31	D
141-78-6	Ethyl Acetate	5	U
96-33-3	Methyl Acrylate	5	U
67-66-3	Chloroform	10	J D
71-55-6	1,1,1-Trichloroethane	1400	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K-1-S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869096 Date Analyzed: 08/05/02 Time Analyzed: 19:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\1901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	54	D
540-84-1	Isooctane	5	U
142-82-5	Heptane	5	U
79-01-6	Trichloroethene	8200	D
140-88-5	Ethyl Acrylate	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
74-95-3	Dibromomethane	5	U
123-91-1	1,4-Dioxane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	610	D
111-65-9	Octane	430	D
10061-02-6	trans-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	1400	D
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	460	D
1330-20-7	m/p-Xylene	830	D
95-47-6	o-Xylene	380	D
100-42-5	Styrene	22	J D
75-25-2	Bromoform	5	U
98-82-8	Cumene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
108-86-1	Bromobenzene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

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NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR

TEDLAR BAG SAMPLE

ANALYSIS DATA SHEET

Sample No.: K-1-S Date Collected 07/31/02 Date Received: 08/01/02
 Lab Sample ID: 3869096 Date Analyzed: 08/05/02 Time Analyzed: 19:32
 Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
 Instrument ID: HP4224 Lab File ID: C \HPCHEM\1\DATA\AUG05\1901008.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	16	J D
108-67-8	1,3,5-Trimethylbenzene	10	J D
98-83-9	Alpha Methyl Styrene	5	U
95-63-6	1,2,4-Trimethylbenzene	28	D
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	13	U
67-72-1	Hexachloroethane	5	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	13	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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2216 Rev 9/11/00



Lancaster Laboratories Sample No. AQ 3869097

Collected: 07/31/2002 11:00 by TB

Account Number: 10160

Submitted: 08/01/2002 09:25

DaimlerChrysler Corporation

Reported: 08/13/2002 at 15:59

PO Box 537933

Discard: 10/13/2002

Livonia MI 48153-7933

K-8/9-S Tedlar Bag Grab Air Sample

Site Code: SC001 RFA #: ET02031

Dayton Thermal/Dayton, OH

K8-9S SDG#: DCK25-12*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	08/05/2002 20:53	George M Main	3.3
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 20:13	George M Main	20
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	08/05/2002 20:53	George M Main	3.3



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: K8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869097 Date Analyzed: 08/05/02 Time Analyzed: 20 53
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2101010.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
64-17-5	Ethanol	9.62	44	J D
67-63-0	Isopropyl Alcohol	10.97	59	J D
	Unknown aliphatic hydrocarbon	24.32	200	J D
	Unknown aliphatic hydrocarbon	24.70	24	J D
127-19-5	Acetamide, N,N-dimethyl-	24.86	54	J D
	Unknown aliphatic hydrocarbon	25.20	87	J D
	Unknown aliphatic hydrocarbon	25.66	97	J D
	Unknown aliphatic hydrocarbon	26.26	630	J D
	Unknown aliphatic hydrocarbon	26.53	28	J D
	Unknown aliphatic hydrocarbon	26.72	380	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869097 Date Analyzed: 08/05/02 Time Analyzed: 20:53
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3 3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
115-07-1	Propene	4		D
75-71-8	Dichlorodifluoromethane	0.8		J D
75-45-6	Chlorodifluoromethane	10		D
76-14-2	Freon 114	0.7		U
74-87-3	Chloromethane	0.7		U
75-01-4	Vinyl Chloride	0.7		U
106-99-0	1,3-Butadiene	3		U
74-83-9	Bromomethane	0.7		U
75-00-3	Chloroethane	0.7		U
75-43-4	Dichlorofluoromethane	0.7		U
75-69-4	Trichlorofluoromethane	0.7		J D
109-66-0	Pentane	2		J D
107-02-8	Acrolein	4		D
75-35-4	1,1-Dichloroethene	0.7		U
76-13-1	Freon 113	3		D
67-64-1	Acetone	29		D
74-88-4	Methyl Iodide	0.7		U
75-15-0	Carbon Disulfide	10		D
75-05-8	Acetonitrile	2		U
107-05-1	3-Chloropropene	2		U
75-09-2	Methylene Chloride	8		D
75-65-0	tert-Butyl Alcohol	2		J D
107-13-1	Acrylonitrile	2		U
156-60-5	trans-1,2-Dichloroethene	5		D
1634-04-4	Methyl t-Butyl Ether	0.7		U
110-54-3	Hexane	4		D
75-34-3	1,1-Dichloroethane	31		D
108-05-4	Vinyl Acetate	0.7		U
156-59-2	cis-1,2-Dichloroethene	110		D
78-93-3	2-Butanone	23		D
141-78-6	Ethyl Acetate	0.7		U
96-33-3	Methyl Acrylate	0.7		U
67-66-3	Chloroform	3		D
71-55-6	1,1,1-Trichloroethane	53		D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : K8-9S Date Collected: 07/31/02 Date Received: 08/01/02
Lab Sample ID: 3869097 Date Analyzed: 08/05/02 Time Analyzed: 20:53
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS · MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.7	U
107-06-2	1,2-Dichloroethane	0.7	U
71-43-2	Benzene	3	J D
540-84-1	Isooctane	0.9	J D
142-82-5	Heptane	1	J D
79-01-6	Trichloroethene	1000	D
140-88-5	Ethyl Acrylate	0.7	U
78-87-5	1,2-Dichloropropane	0.7	U
80-62-6	Methyl Methacrylate	0.7	U
74-95-3	Dibromomethane	0.7	U
123-91-1	1,4-Dioxane	0.7	U
75-27-4	Bromodichloromethane	0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	U
108-10-1	4-Methyl-2-Pentanone	2	U
108-88-3	Toluene	30	D
111-65-9	Octane	2	J D
10061-02-6	trans-1,3-Dichloropropene	0.7	U
97-63-2	Ethyl Methacrylate	0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	U
127-18-4	Tetrachloroethene	100	D
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	0.7	U
106-93-4	1,2-Dibromoethane	0.7	U
108-90-7	Chlorobenzene	0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	U
100-41-4	Ethylbenzene	5	D
1330-20-7	m/p-Xylene	19	D
95-47-6	o-Xylene	7	D
100-42-5	Styrene	0.9	J D
75-25-2	Bromoform	0.7	U
98-82-8	Cumene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	0.7	U
96-18-4	1,2,3-Trichloropropane	0.7	U
108-86-1	Bromobenzene	0.7	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: K8-9S Date Collected: 07/31/02 Date Received 08/01/02
Lab Sample ID: 3869097 Date Analyzed: 08/05/02 Time Analyzed: 20:53
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\AUG05\2101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	6		D
108-67-8	1,3,5-Trimethylbenzene	3		J D
98-83-9	Alpha Methyl Styrene	0.7		U
95-63-6	1,2,4-Trimethylbenzene	7		D
541-73-1	1,3-Dichlorobenzene	2		U
106-46-7	1,4-Dichlorobenzene	2		U
100-44-7	Benzyl chloride	0.7		U
95-50-1	1,2-Dichlorobenzene	2		U
67-72-1	Hexachloroethane	0.7		U
120-82-1	1,2,4-Trichlorobenzene	3		U
87-68-3	Hexachlorobutadiene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Where quality is a science

Quality Control Summary

Client Name: DaimlerChrysler Corporation

Group Number: 817262

Reported: 08/13/02 at 04:00 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A022171AA	Sample number(s): 3869086-3869089							
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	127		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	.2	ppb (v)					
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	106		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	90		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	97		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ
- (2) The background result was more than four times the spike added.



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Page 2 of 4

Quality Control Summary

Client Name: DaimlerChrysler Corporation

Group Number: 817262

Reported: 08/13/02 at 04:00 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	94		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					
Batch number A022171AB Sample number(s): 3869090-3869097								
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	127		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	2	ppb (v)					

*- Outside of specification

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- (2) The background result was more than four times the spike added.



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Page 3 of 4

Quality Control Summary

Client Name: DaimlerChrysler Corporation

Group Number: 817262

Reported: 08/13/02 at 04:00 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	106		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	90		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	97		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	94		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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When quality is a concern
Quality Control Summary

Page 4 of 4

Client Name: DaimlerChrysler Corporation
Reported: 08/13/02 at 04:00 PM

Group Number: 817262

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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DAIMLERCHRYSLER

Chain-of-Custody

1671 B

Lancaster Laboratories
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Lancaster, PA 17601
Phone Number (717) 656-2300
Fax Number (717) 656-2681

Project Name DAYTON THERMAL 40-B
Site Location DAYTON OHIO
Site Code SC0001
RFA Number ETO 2031
DaimlerChrysler PM STAN

Consultant EARTHTECH
Address 4135 TECHNOLOGY PKWY
Sheboygan WI 53083
Consultant PM ROB STINSON
Phone 920-453-3711 Fax 920-453-0550

Turn-around Time Request: (circle)

Data Package Deliverables: (circle)

24 calendar hrs
48 calendar hrs
7 calendar days
14 calendar days

DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes

S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	To14 Volatiles												Remarks
SVE-53	7/26/02	9:30	G	A	1	X												
SVE-40-NE	"	7:55	G	A	1	X												
SVE-40-AN	"	8:55	G	A	1	X												
SVE-40-NW	"	8:30	G	A	1	X												
SVE-40-S	"	7:30	G	A	1	X												
SVE-40-3A	"	6:00	G	A	1	X												
SVE-59-IS	"	5:20	G	A	1	X												
SVE-40-C	"	7:00	G	A	1	X												
SVE-40A-S	"	6:35	G	A	1	X												
SVE-59I-C	"	4:55	G	A	1	X												

Sampler(s) TOM BREWER JAY ERICKSON	Cooler ID #	Samples Relinquished under Airbill No <u>833182050788</u>		Temperature (corrected) <u>N/A</u>	
Relinquished by: TOM BREWER	Date: 7/29/02	Time: 1:30	Received by: FED EX	Date: 7/30/02	Time: 10:10
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: Doss 32K	Date: 7/30/02
					Time: 10:10
					Custody Seal Intact? Yes No
					Custody Seal Intact? Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution White copy Data package Yellow Retained by laboratory Pink Retained by sampler



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ANALYTICAL RESULTS

Prepared for

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 816875. Samples arrived at the laboratory on Tuesday, July 30, 2002. The PO# for this group is N99C403749-B.

Client Description

SVE-53 Grab Tedlar Bag Air Sample
SVE-40-NE Grab Tedlar Bag Air Sample
SVE-40-AN Grab Tedlar Bag Air Sample
SVE-40-NW Grab Tedlar Bag Air Sample
SVE-40-S Grab Tedlar Bag Air Sample
SVE-3A Grab Tedlar Bag Air Sample
SVE-59-IS Grab Tedlar Bag Air Sample
SVE-40-C Grab Tedlar Bag Air Sample
SVE-40A-S Grab Tedlar Bag Air Sample
SVE-59I-C Grab Tedlar Bag Air Sample

Lancaster Labs Number

3866919
3866920
3866921
3866922
3866923
3866924
3866925
3866926
3866927
3866928

1 COPY TO Earth Tech
1 COPY TO Earth Tech
1 COPY TO Earth Tech

Attn: Ms. Lisa Smith
Attn: Mr. Rob Stenson
Attn: Mr. Jay Erickson



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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,



Michele M. Turner
Manager



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Lancaster Laboratories Sample No. AQ 3866919

Collected: 07/26/2002 09:30 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:45

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-53 Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

SVE53 SDG#: DCK22-01

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
-----	---------------	------------	-----------------------	---	-------	--------------------

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 16:16	Matthew S Thomas	167
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 17:02	Matthew S Thomas	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/30/2002 17:02	Matthew S Thomas	25


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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SVE53 Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866919 Date Analyzed: 07/30/02 Time Analyzed: 17:02
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0701006.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.56	57	J D
78-78-4	Butane, 2-methyl-	8.11	200	J D
67-63-0	Isopropyl Alcohol	10.82	200	J D
107-83-5	Pentane, 2-methyl-	11.23	82	J D
2213-23-2	Heptane, 2,4-dimethyl-	20.45	49	J D
	Unknown siloxane	24.46	47	J D
	Unknown aliphatic hydrocarbon	26.50	160	J D
104-76-7	1-Hexanol, 2-ethyl-	27.04	47	J D
	Unknown aliphatic hydrocarbon	27.46	86	J D
	Unknown siloxane	27.95	200	J D

B = Compound was found in method blank D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE53 Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866919 Date Analyzed: 07/30/02 Time Analyzed: 17:02
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID C \HPCHEM\1\DATA\JUL30\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	12	J D
75-71-8	Dichlorodifluoromethane	5	U
75-45-6	Chlorodifluoromethane	460	D
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
106-99-0	1,3-Butadiene	25	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-43-4	Dichlorofluoromethane	5	U
75-69-4	Trichlorofluoromethane	5	U
109-66-0	Pentane	43	D
107-02-8	Acrolein	13	U
75-35-4	1,1-Dichloroethene	26	D
76-13-1	Freon 113	37	D
67-64-1	Acetone	110	D
74-88-4	Methyl Iodide	5	U
75-15-0	Carbon Disulfide	31	D
75-05-8	Acetonitrile	13	U
107-05-1	3-Chloropropene	13	U
75-09-2	Methylene Chloride	54	D
75-65-0	tert-Butyl Alcohol	5	U
107-13-1	Acrylonitrile	13	U
156-60-5	trans-1,2-Dichloroethene	95	D
1634-04-4	Methyl t-Butyl Ether	5	U
110-54-3	Hexane	13	J D
75-34-3	1,1-Dichloroethane	770	D
108-05-4	Vinyl Acetate	5	U
156-59-2	cis-1,2-Dichloroethene	8000	D
78-93-3	2-Butanone	51	D
141-78-6	Ethyl Acetate	5	U
96-33-3	Methyl Acrylate	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	1100	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE53 Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866919 Date Analyzed: 07/30/02 Time Analyzed: 17:02
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	51	D
540-84-1	Isooctane	5	U
142-82-5	Heptane	5	U
79-01-6	Trichloroethene	210	D
140-88-5	Ethyl Acrylate	5	U
78-87-5	1,2-Dichloropropane	5	U
80-62-6	Methyl Methacrylate	5	U
74-95-3	Dibromomethane	5	U
123-91-1	1,4-Dioxane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	87	D
111-65-9	Octane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
97-63-2	Ethyl Methacrylate	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	2000	D
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	J D
1330-20-7	m/p-Xylene	17	J D
95-47-6	o-Xylene	6	J D
100-42-5	Styrene	5	J D
75-25-2	Bromoform	5	U
98-82-8	Cumene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
108-86-1	Bromobenzene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE53 Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID 3866919 Date Analyzed: 07/30/02 Time Analyzed: 17:02
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 25.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0701006.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	7	J D
108-67-8	1,3,5-Trimethylbenzene	5	U
98-83-9	Alpha Methyl Styrene	5	U
95-63-6	1,2,4-Trimethylbenzene	13	J D
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	13	U
67-72-1	Hexachloroethane	5	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	13	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3866920

Collected: 07/26/2002 07:55 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:45

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40-NE Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40NE SDG#: DCK22-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 20:04	Matthew S Thomas	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/30/2002 19:18	Matthew S Thomas	67
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/30/2002 20:04	Matthew S Thomas	10



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No · S40NE Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID 3866920 Date Analyzed: 07/30/02 Time Analyzed: 20·04
Injection Volume 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1101010.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T	ESTIMATED CONCENTRATION	Q
75-28-5	Isobutane	6.13	41	J D
	Unknown C4H8 isomer	6.58	210	J D
78-78-4	Butane, 2-methyl-	8.14	120	J D
67-63-0	Isopropyl Alcohol	10.85	51	J D
107-83-5	Pentane, 2-methyl-	11.26	42	J D
108-87-2	Cyclohexane, methyl-	17.59	34	J D
127-19-5	Acetamide, N,N-dimethyl-	24.75	34	J D
	Unknown aliphatic hydrocarbon	26.50	84	J D
	Unknown C4H8 isomer	27.45	41	J D
	Unknown siloxane	27.95	68	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : S40NE Date Collected: 07/26/02 Date Received 07/30/02
Lab Sample ID: 3866920 Date Analyzed: 07/30/02 Time Analyzed: 20:04
Injection Volume 500 cc Nominal Volume: 250 cc Dilution Factor 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
115-07-1	Propene	41		D
75-71-8	Dichlorodifluoromethane	9		J D
75-45-6	Chlorodifluoromethane	82		D
76-14-2	Freon 114	2		U
74-87-3	Chloromethane	2		U
75-01-4	Vinyl Chloride	210		D
106-99-0	1,3-Butadiene	10		U
74-83-9	Bromomethane	2		U
75-00-3	Chloroethane	17		D
75-43-4	Dichlorofluoromethane	2		U
75-69-4	Trichlorofluoromethane	3		J D
109-66-0	Pentane	31		D
107-02-8	Acrolein	9		J D
75-35-4	1,1-Dichloroethene	12		D
76-13-1	Freon 113	31		D
67-64-1	Acetone	71		D
74-88-4	Methyl Iodide	2		U
75-15-0	Carbon Disulfide	22		D
75-05-8	Acetonitrile	5		U
107-05-1	3-Chloropropene	5		U
75-09-2	Methylene Chloride	35		D
75-65-0	tert-Butyl Alcohol	9		J D
107-13-1	Acrylonitrile	5		U
156-60-5	trans-1,2-Dichloroethene	6		J D
1634-04-4	Methyl t-Butyl Ether	2		U
110-54-3	Hexane	7		J D
75-34-3	1,1-Dichloroethane	660		D
108-05-4	Vinyl Acetate	2		U
156-59-2	cis-1,2-Dichloroethene	360		D
78-93-3	2-Butanone	33		D
141-78-6	Ethyl Acetate	2		U
96-33-3	Methyl Acrylate	2		U
67-66-3	Chloroform	4		J D
71-55-6	1,1,1-Trichloroethane	560		D

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No. S40NE Date Collected: 07/26/02 Date Received 07/30/02
Lab Sample ID: 3866920 Date Analyzed: 07/30/02 Time Analyzed: 20:04
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	4	J D
540-84-1	Isooctane	2	U
142-82-5	Heptane	2	J D
79-01-6	Trichloroethene	410	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	48	D
111-65-9	Octane	4	J D
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	3600	D
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	4	J D
1330-20-7	m/p-Xylene	10	D
95-47-6	o-Xylene	4	J D
100-42-5	Styrene	3	J D
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40NE Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866920 Date Analyzed: 07/30/02 Time Analyzed: 20:04
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1101010.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3		J D
108-67-8	1,3,5-Trimethylbenzene	2		U
98-83-9	Alpha Methyl Styrene	2		U
95-63-6	1,2,4-Trimethylbenzene	6		J D
541-73-1	1,3-Dichlorobenzene	5		U
106-46-7	1,4-Dichlorobenzene	5		U
100-44-7	Benzyl chloride	2		U
95-50-1	1,2-Dichlorobenzene	5		U
67-72-1	Hexachloroethane	2		U
120-82-1	1,2,4-Trichlorobenzene	10		U
87-68-3	Hexachlorobutadiene	5		U

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J = Compound was detected, but below the limit of quantitation.

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Lancaster Laboratories Sample No. AQ 3866921

Collected: 07/26/2002 08:55 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:45

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40-AN Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40AN SDG#: DCK22-03

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
				Limit	Units	Factor

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 20:44	Matthew S Thomas	33
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 21:31	Matthew S Thomas	5
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/30/2002 20:44	Matthew S Thomas	33
	Tedlar					
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/30/2002 21:31	Matthew S Thomas	5
	Tedlar					



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S40AN Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866921 Date Analyzed: 07/30/02 Time Analyzed: 21:31
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1301012.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.58	12	J D
78-78-4	Butane, 2-methyl-	8.15	66	J D
67-63-0	Isopropyl Alcohol	10.88	46	J D
107-83-5	Pentane, 2-methyl-	11.27	15	J D
	Unknown siloxane	24 45	130	J D
127-19-5	Acetamide, N,N-dimethyl-	24 87	29	J D
	Unknown aliphatic hydrocarbon	26 50	39	J D
	Unknown aliphatic hydrocarbon	27 45	24	J D
	Unknown siloxane	27 95	150	J D
	Unknown	31 36	20	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40AN Date Collected 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866921 Date Analyzed: 07/30/02 Time Analyzed: 21:31
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C \HPCHEM\1\DATA\JUL30\1301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	3	J D
75-71-8	Dichlorodifluoromethane	1	U
75-45-6	Chlorodifluoromethane	54	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	2	J D
109-66-0	Pentane	12	D
107-02-8	Acrolein	7	D
75-35-4	1,1-Dichloroethene	7	D
76-13-1	Freon 113	5	J D
67-64-1	Acetone	46	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	13	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	18	D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	22	D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	3	J D
75-34-3	1,1-Dichloroethane	160	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	1000	D
78-93-3	2-Butanone	24	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	2	J D
71-55-6	1,1,1-Trichloroethane	410	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40AN Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866921 Date Analyzed: 07/30/02 Time Analyzed: 21:31
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	130	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	38	D
111-65-9	Octane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1300	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	J D
1330-20-7	m/p-Xylene	4	J D
95-47-6	o-Xylene	2	J D
100-42-5	Styrene	1	J D
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40AN Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866921 Date Analyzed: 07/30/02 Time Analyzed: 21:31
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\JUL30\1301012.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	1	J D
108-67-8	1,3,5-Trimethylbenzene	1	U
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	2	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE. Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3866922

Collected: 07/26/2002 08:30 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:45

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40-NW Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40NW SDG#: DCK22-04

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
					Limit	Factor

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 22:13	Matthew S Thomas	33
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 22:59	Matthew S Thomas	5
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/30/2002 22:13	Matthew S Thomas	33
	Tedlar					
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/30/2002 22:59	Matthew S Thomas	5
	Tedlar					



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S40NW Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866922 Date Analyzed: 07/30/02 Time Analyzed: 22:59
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1501014.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
79-38-9	Ethene, chlorotrifluoro-	5.62	59	J D
78-78-4	Butane, 2-methyl-	8.14	68	J D
	Unknown	9.62	17	J D
67-63-0	Isopropyl Alcohol	10.86	41	J D
107-83-5	Pentane, 2-methyl-	11.26	20	J D
127-19-5	Acetamide, N,N-dimethyl-	24.72	30	J D
	Unknown aliphatic hydrocarbon	26.49	38	J D
	Unknown aliphatic hydrocarbon	27.45	21	J D
	Unknown siloxane	27.95	36	J D
	Unknown	31.35	13	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40NW Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866922 Date Analyzed: 07/30/02 Time Analyzed: 22:59
Injection Volume 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1501014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	11	D
75-71-8	Dichlorodifluoromethane	1	U
75-45-6	Chlorodifluoromethane	310	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	2	J D
109-66-0	Pentane	15	D
107-02-8	Acrolein	7	D
75-35-4	1,1-Dichloroethene	1	J D
76-13-1	Freon 113	970	D
67-64-1	Acetone	50	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	13	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	15	D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	4	J D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	5	J D
75-34-3	1,1-Dichloroethane	3	J D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	32	D
78-93-3	2-Butanone	29	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	17	D
71-55-6	1,1,1-Trichloroethane	110	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40NW Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866922 Date Analyzed: 07/30/02 Time Analyzed: 22:59
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1501014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	3	J D
540-84-1	Isooctane	1	J D
142-82-5	Heptane	1	J D
79-01-6	Trichloroethene	1900	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	42	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1300	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	2	J D
1330-20-7	m/p-Xylene	7	D
95-47-6	o-Xylene	3	J D
100-42-5	Styrene	2	J D
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40NW Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866922 Date Analyzed: 07/30/02 Time Analyzed: 22:59
Injection Volume 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1501014.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	2	J D
108-67-8	1,3,5-Trimethylbenzene	1	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	4	J D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3866923

Collected: 07/26/2002 07:30 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40-S Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40-S SDG#: DCK22-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext List Tedlar	EPA TO14	1	07/31/2002 01:25	Matthew S Thomas	3.3
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/30/2002 23:41	Matthew S Thomas	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 01:25	Matthew S Thomas	3.3



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S40-S Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866923 Date Analyzed: 07/31/02 Time Analyzed: 01:25
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID C:\HPCHEM\1\DATA\JUL30\1701016 D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.13	7	J D
	Unknown	8.74	5	J D
67-63-0	Isopropyl Alcohol	10.85	49	J D
	Unknown aliphatic hydrocarbon	21.65	3	J D
127-19-5	Acetamide, N,N-dimethyl-	24.75	14	J D
	Unknown aliphatic hydrocarbon	26.49	13	J D
104-76-7	1-Hexanol, 2-ethyl-	27.03	4	J D
	Unknown aliphatic hydrocarbon	27.45	6	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40-S Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866923 Date Analyzed: 07/31/02 Time Analyzed: 01:25
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C \HPCHEM\1\DATA\JUL30\1701016.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	0.7	U
75-71-8	Dichlorodifluoromethane	2	J D
75-45-6	Chlorodifluoromethane	23	D
76-14-2	Freon 114	0.7	U
74-87-3	Chloromethane	0.7	U
75-01-4	Vinyl Chloride	0.7	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.7	U
75-00-3	Chloroethane	0.7	U
75-43-4	Dichlorofluoromethane	0.7	U
75-69-4	Trichlorofluoromethane	0.8	J D
109-66-0	Pentane	5	D
107-02-8	Acrolein	3	J D
75-35-4	1,1-Dichloroethene	1	J D
76-13-1	Freon 113	48	D
67-64-1	Acetone	23	D
74-88-4	Methyl Iodide	0.7	U
75-15-0	Carbon Disulfide	9	D
75-05-8	Acetonitrile	2	U
107-05-1	3-Chloropropene	2	U
75-09-2	Methylene Chloride	6	D
75-65-0	tert-Butyl Alcohol	0.7	U
107-13-1	Acrylonitrile	2	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
1634-04-4	Methyl t-Butyl Ether	0.7	U
110-54-3	Hexane	0.7	U
75-34-3	1,1-Dichloroethane	3	D
108-05-4	Vinyl Acetate	0.7	U
156-59-2	cis-1,2-Dichloroethene	6	D
78-93-3	2-Butanone	12	D
141-78-6	Ethyl Acetate	0.7	U
96-33-3	Methyl Acrylate	0.7	U
67-66-3	Chloroform	6	D
71-55-6	1,1,1-Trichloroethane	320	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40-S Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866923 Date Analyzed: 07/31/02 Time Analyzed: 01:25
Injection Volume: 75 cc Nominal Volume 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1701016.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.7	U
107-06-2	1,2-Dichloroethane	0.7	U
71-43-2	Benzene	1	J D
540-84-1	Isooctane	0.7	U
142-82-5	Heptane	0.7	U
79-01-6	Trichloroethene	700	D
140-88-5	Ethyl Acrylate	0.7	U
78-87-5	1,2-Dichloropropane	0.7	U
80-62-6	Methyl Methacrylate	0.7	U
74-95-3	Dibromomethane	0.7	U
123-91-1	1,4-Dioxane	0.7	U
75-27-4	Bromodichloromethane	0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	U
108-10-1	4-Methyl-2-Pentanone	2	U
108-88-3	Toluene	17	D
111-65-9	Octane	0.7	U
10061-02-6	trans-1,3-Dichloropropene	0.7	U
97-63-2	Ethyl Methacrylate	0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	U
127-18-4	Tetrachloroethene	850	D
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	0.7	U
106-93-4	1,2-Dibromoethane	0.7	U
108-90-7	Chlorobenzene	0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	U
100-41-4	Ethylbenzene	2	J D
1330-20-7	m/p-Xylene	5	D
95-47-6	o-Xylene	2	J D
100-42-5	Styrene	1	J D
75-25-2	Bromoform	0.7	U
98-82-8	Cumene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	0.7	U
96-18-4	1,2,3-Trichloropropane	0.7	U
108-86-1	Bromobenzene	0.7	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40-S Date Collected 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866923 Date Analyzed: 07/31/02 Time Analyzed: 01:25
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1701016.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	2	J D
108-67-8	1,3,5-Trimethylbenzene	1	J D
98-83-9	Alpha Methyl Styrene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	3	J D
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
100-44-7	Benzyl chloride	0.7	U
95-50-1	1,2-Dichlorobenzene	2	U
67-72-1	Hexachloroethane	0.7	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3866924

Collected: 07/26/2002 06:00 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-3A Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

SVE3A SDG#: DCK22-06

CAT	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/31/2002 02:51	Matthew S Thomas	3.3
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 02:08	Matthew S Thomas	20
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 02:51	Matthew S Thomas	3.3



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SVE3A Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866924 Date Analyzed: 07/31/02 Time Analyzed: 02:51
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1901018.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R T.	ESTIMATED CONCENTRATION	Q
	Unknown	5.61	4	J D
78-78-4	Butane, 2-methyl-	8.13	10	J D
	Unknown	8.70	11	J D
67-63-0	Isopropyl Alcohol	10.87	65	J D
	Unknown aliphatic hydrocarbon	26.49	9	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE3A Date Collected 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866924 Date Analyzed: 07/31/02 Time Analyzed: 02:51
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1901018.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	0.7	U
75-71-8	Dichlorodifluoromethane	0.9	J D
75-45-6	Chlorodifluoromethane	4	D
76-14-2	Freon 114	0.7	U
74-87-3	Chloromethane	0.7	U
75-01-4	Vinyl Chloride	0.7	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.7	U
75-00-3	Chloroethane	0.7	U
75-43-4	Dichlorofluoromethane	0.7	U
75-69-4	Trichlorofluoromethane	3	J D
109-66-0	Pentane	7	D
107-02-8	Acrolein	3	J D
75-35-4	1,1-Dichloroethene	0.7	U
76-13-1	Freon 113	2	J D
67-64-1	Acetone	23	D
74-88-4	Methyl Iodide	0.7	U
75-15-0	Carbon Disulfide	9	D
75-05-8	Acetonitrile	2	U
107-05-1	3-Chloropropene	2	U
75-09-2	Methylene Chloride	6	D
75-65-0	tert-Butyl Alcohol	0.7	U
107-13-1	Acrylonitrile	2	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
1634-04-4	Methyl t-Butyl Ether	0.7	U
110-54-3	Hexane	0.8	J D
75-34-3	1,1-Dichloroethane	0.7	U
108-05-4	Vinyl Acetate	0.7	U
156-59-2	cis-1,2-Dichloroethene	7	D
78-93-3	2-Butanone	11	D
141-78-6	Ethyl Acetate	0.7	U
96-33-3	Methyl Acrylate	0.7	U
67-66-3	Chloroform	1	J D
71-55-6	1,1,1-Trichloroethane	18	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : SVE3A Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866924 Date Analyzed: 07/31/02 Time Analyzed: 02:51
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1901018.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.7	U
107-06-2	1,2-Dichloroethane	0.7	U
71-43-2	Benzene	0.8	J D
540-84-1	Isooctane	0.7	U
142-82-5	Heptane	0.7	U
79-01-6	Trichloroethene	650	D
140-88-5	Ethyl Acrylate	0.7	U
78-87-5	1,2-Dichloropropane	0.7	U
80-62-6	Methyl Methacrylate	0.7	U
74-95-3	Dibromomethane	0.7	U
123-91-1	1,4-Dioxane	0.7	U
75-27-4	Bromodichloromethane	0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	U
108-10-1	4-Methyl-2-Pentanone	2	U
108-88-3	Toluene	17	D
111-65-9	Octane	0.7	U
10061-02-6	trans-1,3-Dichloropropene	0.7	U
97-63-2	Ethyl Methacrylate	0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	U
127-18-4	Tetrachloroethene	22	D
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	0.7	U
106-93-4	1,2-Dibromoethane	0.7	U
108-90-7	Chlorobenzene	0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	U
100-41-4	Ethylbenzene	1	J D
1330-20-7	m/p-Xylene	3	J D
95-47-6	o-Xylene	1	J D
100-42-5	Styrene	0.7	J D
75-25-2	Bromoform	0.7	U
98-82-8	Cumene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	0.7	U
96-18-4	1,2,3-Trichloropropane	0.7	U
108-86-1	Bromobenzene	0.7	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE3A Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866924 Date Analyzed: 07/31/02 Time Analyzed: 02:51
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\1901018.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	1		J D
108-67-8	1,3,5-Trimethylbenzene	0.7		U
98-83-9	Alpha Methyl Styrene	0.7		U
95-63-6	1,2,4-Trimethylbenzene	2		J D
541-73-1	1,3-Dichlorobenzene	2		U
106-46-7	1,4-Dichlorobenzene	2		U
100-44-7	Benzyl chloride	0.7		U
95-50-1	1,2-Dichlorobenzene	2		U
67-72-1	Hexachloroethane	0.7		U
120-82-1	1,2,4-Trichlorobenzene	3		U
87-68-3	Hexachlorobutadiene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

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NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3866925

Collected: 07/26/2002 05:20 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-59-IS Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S59IS SDG#: DCK22-07

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/31/2002 04:20	Matthew S Thomas	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 03:34	Matthew S Thomas	33
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 04:20	Matthew S Thomas	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S59IS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866925 Date Analyzed: 07/31/02 Time Analyzed: 04:20
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2101020.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
127-19-5	Unknown C4H8 isomer	6.60	46	J D
	Unknown aliphatic hydrocarbon	24.31	25	J D
	Acetamide, N,N-dimethyl-	24.84	58	J D
	Unknown aliphatic hydrocarbon	25.73	60	J D
	Unknown aliphatic hydrocarbon	26.25	200	J D
	Unknown aliphatic hydrocarbon	26.50	65	J D
	Unknown aliphatic hydrocarbon	26.72	170	J D
	Unknown aliphatic hydrocarbon	27.11	57	J D
	Unknown aliphatic hydrocarbon	27.45	27	J D
	Unknown siloxane	27.94	30	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59IS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866925 Date Analyzed: 07/31/02 Time Analyzed: 04:20
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2101020.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ppb(v)	Q
115-07-1	Propene	4		J D
75-71-8	Dichlorodifluoromethane	1		J D
75-45-6	Chlorodifluoromethane	18		D
76-14-2	Freon 114	1		U
74-87-3	Chloromethane	1		U
75-01-4	Vinyl Chloride	1		U
106-99-0	1,3-Butadiene	5		U
74-83-9	Bromomethane	1		U
75-00-3	Chloroethane	1		U
75-43-4	Dichlorofluoromethane	1		U
75-69-4	Trichlorofluoromethane	2		J D
109-66-0	Pentane	9		D
107-02-8	Acrolein	7		D
75-35-4	1,1-Dichloroethene	7		D
76-13-1	Freon 113	3		U
67-64-1	Acetone	48		D
74-88-4	Methyl Iodide	1		U
75-15-0	Carbon Disulfide	14		D
75-05-8	Acetonitrile	3		U
107-05-1	3-Chloropropene	3		U
75-09-2	Methylene Chloride	22		D
75-65-0	tert-Butyl Alcohol	1		J D
107-13-1	Acrylonitrile	3		U
156-60-5	trans-1,2-Dichloroethene	1		U
1634-04-4	Methyl t-Butyl Ether	1		U
110-54-3	Hexane	6		D
75-34-3	1,1-Dichloroethane	11		D
108-05-4	Vinyl Acetate	1		U
156-59-2	cis-1,2-Dichloroethene	63		D
78-93-3	2-Butanone	23		D
141-78-6	Ethyl Acetate	1		U
96-33-3	Methyl Acrylate	1		U
67-66-3	Chloroform	1		U
71-55-6	1,1,1-Trichloroethane	160		D

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59IS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866925 Date Analyzed: 07/31/02 Time Analyzed: 04:20
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2101020.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	2	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	2100	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	40	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	76	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	3	J D
1330-20-7	m/p-Xylene	9	D
95-47-6	o-Xylene	4	J D
100-42-5	Styrene	2	J D
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59IS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866925 Date Analyzed: 07/31/02 Time Analyzed: 04 20
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2101020.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS· MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	1	U
95-63-6	1,2,4-Trimethylbenzene	5	D
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	3	U
67-72-1	Hexachloroethane	1	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	3	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3866926

Collected: 07/26/2002 07:00 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40-C Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S-40C SDG#: DCK22-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/31/2002 05:02	Matthew S Thomas	33
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/31/2002 05:49	Matthew S Thomas	5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 05:02	Matthew S Thomas	33
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 05:49	Matthew S Thomas	5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S-40C Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866926 Date Analyzed: 07/31/02 Time Analyzed: 05:49
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2301022.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
75-28-5	Isobutane	6.17	13	J D
78-78-4	Butane, 2-methyl-	8.14	53	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	9.63	38	J D
67-63-0	Isopropyl Alcohol	10.88	53	J D
	Unknown siloxane	24.45	14	J D
127-19-5	Acetamide, N,N-dimethyl-	24.89	40	J D
	Unknown aliphatic hydrocarbon	26.49	36	J D
	Unknown aliphatic hydrocarbon	27.44	16	J D
	Unknown siloxane	27.94	35	J D
	Unknown	31.35	15	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S-40C Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866926 Date Analyzed: 07/31/02 Time Analyzed: 05 49
Injection Volume: 500 cc Nominal Volume 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2301022.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	4	J D
75-71-8	Dichlorodifluoromethane	4	J D
75-45-6	Chlorodifluoromethane	36	D
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
106-99-0	1,3-Butadiene	5	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	1	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	13	D
107-02-8	Acrolein	8	D
75-35-4	1,1-Dichloroethene	1	U
76-13-1	Freon 113	30	D
67-64-1	Acetone	59	D
74-88-4	Methyl Iodide	1	U
75-15-0	Carbon Disulfide	18	D
75-05-8	Acetonitrile	3	U
107-05-1	3-Chloropropene	3	U
75-09-2	Methylene Chloride	34	D
75-65-0	tert-Butyl Alcohol	1	U
107-13-1	Acrylonitrile	3	U
156-60-5	trans-1,2-Dichloroethene	7	D
1634-04-4	Methyl t-Butyl Ether	1	U
110-54-3	Hexane	4	J D
75-34-3	1,1-Dichloroethane	310	D
108-05-4	Vinyl Acetate	1	U
156-59-2	cis-1,2-Dichloroethene	130	D
78-93-3	2-Butanone	27	D
141-78-6	Ethyl Acetate	1	U
96-33-3	Methyl Acrylate	1	U
67-66-3	Chloroform	31	D
71-55-6	1,1,1-Trichloroethane	580	D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S-40C Date Collected: 07/26/02 Date Received 07/30/02
Lab Sample ID: 3866926 Date Analyzed: 07/31/02 Time Analyzed 05:49
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2301022.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	4	J D
540-84-1	Isooctane	1	U
142-82-5	Heptane	1	U
79-01-6	Trichloroethene	2300	D
140-88-5	Ethyl Acrylate	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl Methacrylate	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	43	D
111-65-9	Octane	1	J D
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1200	D
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	2	J D
1330-20-7	m/p-Xylene	6	D
95-47-6	o-Xylene	3	J D
100-42-5	Styrene	2	J D
75-25-2	Bromoform	1	U
98-82-8	Cumene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
108-86-1	Bromobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S-40C Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866926 Date Analyzed: 07/31/02 Time Analyzed: 05:49
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2301022.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS	MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	2		J D
108-67-8	1,3,5-Trimethylbenzene	1		J D
98-83-9	Alpha Methyl Styrene	1		U
95-63-6	1,2,4-Trimethylbenzene	4		J D
541-73-1	1,3-Dichlorobenzene	3		U
106-46-7	1,4-Dichlorobenzene	3		U
100-44-7	Benzyl chloride	1		U
95-50-1	1,2-Dichlorobenzene	3		U
67-72-1	Hexachloroethane	1		U
120-82-1	1,2,4-Trichlorobenzene	5		U
87-68-3	Hexachlorobutadiene	3		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample

J = Compound was detected, but below the limit of quantitation.

NOTE Limits of detection were raised due to the high concentration of volatile organic compounds in this sample



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Lancaster Laboratories Sample No. AQ 3866927

Collected: 07/26/2002 06:35 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-40A-S Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40AS SDG#: DCK22-09

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/31/2002 07:17	Matthew S Thomas	12
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 06:31	Matthew S Thomas	83
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/31/2002 07:17	Matthew S Thomas	12



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S40AS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866927 Date Analyzed: 07/31/02 Time Analyzed: 07:17
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2501024.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.15	170	J D
67-63-0	Isopropyl Alcohol	10.84	64	J D
107-83-5	Pentane, 2-methyl-	11.25	46	J D
2213-23-2	Heptane, 2,4-dimethyl-	20.46	36	J D
	Unknown siloxane	24.44	36	J D
127-19-5	Acetamide, N,N-dimethyl-	24.79	380	J D
	Unknown aliphatic hydrocarbon	26.49	110	J D
	Unknown aliphatic hydrocarbon	27.45	54	J D
	Unknown siloxane	27.93	88	J D
	Unknown	31.35	38	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No : S40AS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866927 Date Analyzed: 07/31/02 Time Analyzed: 07.17
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2501024.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	7	J D
75-71-8	Dichlorodifluoromethane	2	U
75-45-6	Chlorodifluoromethane	91	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	12	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	4	J D
109-66-0	Pentane	35	D
107-02-8	Acrolein	18	D
75-35-4	1,1-Dichloroethene	2	U
76-13-1	Freon 113	31	D
67-64-1	Acetone	120	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	33	D
75-05-8	Acetonitrile	6	U
107-05-1	3-Chloropropene	6	U
75-09-2	Methylene Chloride	63	D
75-65-0	tert-Butyl Alcohol	2	U
107-13-1	Acrylonitrile	6	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl t-Butyl Ether	2	U
110-54-3	Hexane	11	J D
75-34-3	1,1-Dichloroethane	76	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	71	D
78-93-3	2-Butanone	54	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	17	D
71-55-6	1,1,1-Trichloroethane	170	D

U = Compound was undetected at the specified limit of quantitation.
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NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40AS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866927 Date Analyzed: 07/31/02 Time Analyzed: 07:17
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2501024.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS. MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	3	J D
540-84-1	Isooctane	2	U
142-82-5	Heptane	2	U
79-01-6	Trichloroethene	1200	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	6	U
108-88-3	Toluene	89	D
111-65-9	Octane	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	4300	D
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	3	J D
1330-20-7	m/p-Xylene	10	J D
95-47-6	o-Xylene	4	J D
100-42-5	Styrene	4	J D
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40AS Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866927 Date Analyzed: 07/31/02 Time Analyzed: 07:17
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\2501024.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	4	J D
108-67-8	1,3,5-Trimethylbenzene	2	U
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	7	J D
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	6	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	6	U

U = Compound was undetected at the specified limit of quantitation.

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Page 1 of 5

Lancaster Laboratories Sample No. AQ 3866928

Collected: 07/26/2002 04:55 by TB

Account Number: 10160

Submitted: 07/30/2002 09:10

DaimlerChrysler Corporation

Reported: 08/07/2002 at 12:46

PO Box 537933

Discard: 10/07/2002

Livonia MI 48153-7933

SVE-59I-C Grab Tedlar Bag Air Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S59IC SDG#: DCK22-10*

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/30/2002 17:42	Matthew S Thomas	333
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/30/2002 17:42	Matthew S Thomas	333



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S59IC Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866928 Date Analyzed: 07/30/02 Time Analyzed: 17:42
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 333.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0801007.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	10.82	450	J D
	Unknown siloxane	20.16	770	J D
	Unknown siloxane	24.45	6300	J D
127-19-5	Acetamide, N,N-dimethyl-	24.77	2600	J D
	Unknown siloxane	27.95	560	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59IC Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866928 Date Analyzed: 07/30/02 Time Analyzed: 17:42
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 333.0
Instrument ID HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0801007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	67	U
75-71-8	Dichlorodifluoromethane	67	U
75-45-6	Chlorodifluoromethane	330	U
76-14-2	Freon 114	67	U
74-87-3	Chloromethane	67	U
75-01-4	Vinyl Chloride	67	U
106-99-0	1,3-Butadiene	330	U
74-83-9	Bromomethane	67	U
75-00-3	Chloroethane	67	U
75-43-4	Dichlorofluoromethane	67	U
75-69-4	Trichlorofluoromethane	67	U
109-66-0	Pentane	67	U
107-02-8	Acrolein	170	U
75-35-4	1,1-Dichloroethene	67	U
76-13-1	Freon 113	170	U
67-64-1	Acetone	330	U
74-88-4	Methyl Iodide	67	U
75-15-0	Carbon Disulfide	170	U
75-05-8	Acetonitrile	170	U
107-05-1	3-Chloropropene	170	U
75-09-2	Methylene Chloride	170	U
75-65-0	tert-Butyl Alcohol	67	U
107-13-1	Acrylonitrile	170	U
156-60-5	trans-1,2-Dichloroethene	67	U
1634-04-4	Methyl t-Butyl Ether	67	U
110-54-3	Hexane	67	U
75-34-3	1,1-Dichloroethane	230	J D
108-05-4	Vinyl Acetate	67	U
156-59-2	cis-1,2-Dichloroethene	2400	D
78-93-3	2-Butanone	170	U
141-78-6	Ethyl Acetate	67	U
96-33-3	Methyl Acrylate	67	U
67-66-3	Chloroform	67	U
71-55-6	1,1,1-Trichloroethane	1700	D

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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No - S59IC Date Collected: 07/26/02 Date Received: 07/30/02
Lab Sample ID: 3866928 Date Analyzed: 07/30/02 Time Analyzed: 17:42
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor 333.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0801007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	67	U
107-06-2	1,2-Dichloroethane	67	U
71-43-2	Benzene	67	U
540-84-1	Isooctane	67	U
142-82-5	Heptane	67	U
79-01-6	Trichloroethene	14000	D
140-88-5	Ethyl Acrylate	67	U
78-87-5	1,2-Dichloropropane	67	U
80-62-6	Methyl Methacrylate	67	U
74-95-3	Dibromomethane	67	U
123-91-1	1,4-Dioxane	67	U
75-27-4	Bromodichloromethane	67	U
10061-01-5	cis-1,3-Dichloropropene	67	U
108-10-1	4-Methyl-2-Pentanone	170	U
108-88-3	Toluene	280	J D
111-65-9	Octane	67	U
10061-02-6	trans-1,3-Dichloropropene	67	U
97-63-2	Ethyl Methacrylate	67	U
79-00-5	1,1,2-Trichloroethane	67	U
127-18-4	Tetrachloroethene	170	J D
591-78-6	2-Hexanone	170	U
124-48-1	Dibromochloromethane	67	U
106-93-4	1,2-Dibromoethane	67	U
108-90-7	Chlorobenzene	67	U
630-20-6	1,1,1,2-Tetrachloroethane	67	U
100-41-4	Ethylbenzene	67	U
1330-20-7	m/p-Xylene	67	U
95-47-6	o-Xylene	67	U
100-42-5	Styrene	67	U
75-25-2	Bromoform	67	U
98-82-8	Cumene	67	U
79-34-5	1,1,2,2-Tetrachloroethane	67	U
96-18-4	1,2,3-Trichloropropane	67	U
108-86-1	Bromobenzene	67	U

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VOLATILE ORGANICS IN AIR

TEDLAR BAG SAMPLE

ANALYSIS DATA SHEET

Sample No.: S59IC Date Collected: 07/26/02 Date Received: 07/30/02
 Lab Sample ID: 3866928 Date Analyzed: 07/30/02 Time Analyzed: 17:42
 Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 333.0
 Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL30\0801007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS · MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	67	U
108-67-8	1,3,5-Trimethylbenzene	67	U
98-83-9	Alpha Methyl Styrene	67	U
95-63-6	1,2,4-Trimethylbenzene	67	U
541-73-1	1,3-Dichlorobenzene	170	U
106-46-7	1,4-Dichlorobenzene	170	U
100-44-7	Benzyl chloride	67	U
95-50-1	1,2-Dichlorobenzene	170	U
67-72-1	Hexachloroethane	67	U
120-82-1	1,2,4-Trichlorobenzene	330	U
87-68-3	Hexachlorobutadiene	170	U

U = Compound was undetected at the specified limit of quantitation.

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Page 1 of 2

Client Name: DaimlerChrysler Corporation
Reported: 08/07/02 at 12:46 PM

Group Number: 816875

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A022121AA	Sample number(s): 3866919-3866928							
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	127		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	.2	ppb (v)					
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	108		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	109		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	105		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Client Name: DaimlerChrysler Corporation
 Reported: 08/07/02 at 12:46 PM

Group Number: 816875

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	99		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	81		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	.1	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



004 10/60 #3865289-95 9/12 816691

DAIMLERCHRYSLER

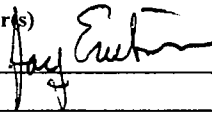
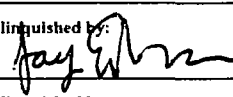
Chain-of-Custody

1673 B

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Phone Number (717) 656-2300 Fax Number (717) 656-2681	Project Name	Dayton Thermal Prod. Plant	Consultant	Earth Tech
	Site Location	1600 Webster St, Dayton OH 45404	Address	4135 Technology Parkway
	Site Code	SC001		Sheboygan, WI 53083
	RFA Number	ET02031	Consultant PM	Rob Stenson
	DaimlerChrysler PM		Phone	920-458-8711 Fax 920-458-0550

Turn-around Time Request: (circle)	Data Package Deliverables: (circle)	Compound List-Parameter/Method/Bottle Type/Preservative	Matrix Codes
24 calendar hrs 48 calendar hrs 7 calendar days <u>14 calendar days</u>	DaimlerChrysler Level 1 DaimlerChrysler Level 2 CLP		S - Soil GW - Groundwater Sed - Sediment O - Other (specify) SW - Surface Water <u>A - Air</u> Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	10/4 Volatiles													Remarks
SVE 47	7/24/02	2:30	X	A	1	X													
SVE 50E	7/25/02	10:30	X	A	1	X													
SVE 59N	7/25/02	2:50	X	A	1	X													
SVE 59NW	7/25/02	3:40	X	A	1	X													
SVE 40BN	7/25/02	4:30	X	A	1	X													
SVE 59INE	7/25/02	6:40	X	A	1	X													
SVE 59INW	7/6/02	11:40	X	A	1	X													

Sampler(s) 	Cooler ID #	Samples Relinquished under Airbill No. 835655759147		Temperature (corrected) N/A C		
	Relinquished by: 	Date: 7/26/02	Time: 2:00	Received by: Fed Ex	Date: 7/26/02	Time: 2:00
Is RFA sampling complete?	Relinquished by:	Date:	Time:	Received for Laboratory by: Kathy Binkley	Date: 7-27-02	Time: 1015
Yes No					Yes No	Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-0051, Auburn Hills, Michigan 48326-2757

Distribution White copy Data package Yellow Retained by laboratory Pink Retained by sampler



ANALYTICAL RESULTS

Prepared for

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 816691. Samples arrived at the laboratory on Saturday, July 27, 2002. The PO# for this group is N99C403749-B.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
SVE47 Tedlar Bag Sample	3865289
SVE50E Tedlar Bag Sample	3865290
SVE59N Tedlar Bag Sample	3865291
SVE59NW Tedlar Bag Sample	3865292
SVE40BN Tedlar Bag Sample	3865293
SVE59INE Tedlar Bag Sample	3865294
SVE59INW Tedlar Bag Sample	3865295

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Earth Tech
1 COPY TO Earth Tech

Attn: Mr. Rob Stenson
Attn: Ms. Lisa Smith



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Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr. Chemist/Coordinator



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Lancaster Laboratories Sample No. AQ 3865289

Collected: 07/24/2002 14:30 by JE

Account Number: 10160

Submitted: 07/27/2002 10:15

Reported: 08/01/2002 at 13:13

Discard: 10/01/2002

SVE47 Tedlar Bag Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

DaimlerChrysler Corporation

PO Box 537933

Livonia MI 48153-7933

SVE47 SDG#: DCK20-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/28/2002 18:24	Matthew S Thomas	3.3
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/28/2002 17:44	Matthew S Thomas	25
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/28/2002 18:24	Matthew S Thomas	3.3



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SVE47 Date Collected: 07/24/02 Date Received: 07/27/02
Lab Sample ID: 3865289 Date Analyzed: 07/28/02 Time Analyzed: 18:24
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0701007.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
106-97-8	Butane	6.59	12	J D
75-07-0	Acetaldehyde	7.12	16	J D
78-78-4	Butane, 2-methyl-	8.07	33	J D
	Unknown	9.49	12	J D
67-63-0	Isopropyl Alcohol	10.82	28	J D
107-83-5	Pentane, 2-methyl-	11.21	16	J D
	Unknown aliphatic hydrocarbon	20.45	14	J D
	Unknown aliphatic hydrocarbon	21.64	20	J D
	Unknown aliphatic hydrocarbon	26.49	15	J D
	Unknown aliphatic hydrocarbon	27.45	11	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE47 Date Collected: 07/24/02 Date Received: 07/27/02
Lab Sample ID: 3865289 Date Analyzed: 07/28/02 Time Analyzed: 18:24
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0701007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	2	J D
75-71-8	Dichlorodifluoromethane	0.8	J D
75-45-6	Chlorodifluoromethane	4	D
76-14-2	Freon 114	0.7	U
74-87-3	Chloromethane	0.7	U
75-01-4	Vinyl Chloride	0.7	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.7	U
75-00-3	Chloroethane	0.7	U
75-43-4	Dichlorofluoromethane	0.7	U
75-69-4	Trichlorofluoromethane	1	J D
109-66-0	Pentane	13	D
107-02-8	Acrolein	9	D
75-35-4	1,1-Dichloroethene	2	J D
76-13-1	Freon 113	2	U
67-64-1	Acetone	33	D
74-88-4	Methyl Iodide	0.7	U
75-15-0	Carbon Disulfide	9	D
75-05-8	Acetonitrile	3	J D
107-05-1	3-Chloropropene	2	U
75-09-2	Methylene Chloride	5	D
75-65-0	tert-Butyl Alcohol	0.7	U
107-13-1	Acrylonitrile	2	U
156-60-5	trans-1,2-Dichloroethene	1	J D
1634-04-4	Methyl t-Butyl Ether	0.7	U
110-54-3	Hexane	6	D
75-34-3	1,1-Dichloroethane	10	D
108-05-4	Vinyl Acetate	0.7	U
156-59-2	cis-1,2-Dichloroethene	18	D
78-93-3	2-Butanone	16	D
141-78-6	Ethyl Acetate	0.7	U
96-33-3	Methyl Acrylate	0.7	U
67-66-3	Chloroform	0.7	U
71-55-6	1,1,1-Trichloroethane	94	D

U = Compound was undetected at the specified limit of quantitation.
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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE47 Date Collected: 07/24/02 Date Received: 07/27/02
Lab Sample ID: 3865289 Date Analyzed: 07/28/02 Time Analyzed: 18:24
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0701007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.7	U
107-06-2	1,2-Dichloroethane	0.7	U
71-43-2	Benzene	4	D
540-84-1	Isooctane	2	J D
142-82-5	Heptane	2	J D
79-01-6	Trichloroethene	110	D
140-88-5	Ethyl Acrylate	0.7	U
78-87-5	1,2-Dichloropropane	0.7	U
80-62-6	Methyl Methacrylate	0.7	U
74-95-3	Dibromomethane	0.7	U
123-91-1	1,4-Dioxane	0.7	U
75-27-4	Bromodichloromethane	0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	U
108-10-1	4-Methyl-2-Pentanone	2	U
108-88-3	Toluene	37	D
111-65-9	Octane	2	J D
10061-02-6	trans-1,3-Dichloropropene	0.7	U
97-63-2	Ethyl Methacrylate	0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	U
127-18-4	Tetrachloroethene	1100	D
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	0.7	U
106-93-4	1,2-Dibromoethane	0.7	U
108-90-7	Chlorobenzene	0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	U
100-41-4	Ethylbenzene	4	D
1330-20-7	m/p-Xylene	15	D
95-47-6	o-Xylene	6	D
100-42-5	Styrene	1	J D
75-25-2	Bromoform	0.7	U
98-82-8	Cumene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	0.7	U
96-18-4	1,2,3-Trichloropropane	0.7	U
108-86-1	Bromobenzene	0.7	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVE47 Date Collected: 07/24/02 Date Received: 07/27/02
Lab Sample ID: 3865289 Date Analyzed: 07/28/02 Time Analyzed: 18:24
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 3.3
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0701007.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	4	D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	5	D
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
100-44-7	Benzyl chloride	0.7	U
95-50-1	1,2-Dichlorobenzene	2	U
67-72-1	Hexachloroethane	0.7	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	2	U

U = Compound was undetected at the specified limit of quantitation.
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of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3865290

Collected: 07/25/2002 10:30 by JE

Account Number: 10160

Submitted: 07/27/2002 10:15

DaimlerChrysler Corporation

Reported: 08/01/2002 at 13:13

PO Box 537933

Discard: 10/01/2002

Livonia MI 48153-7933

SVE50E Tedlar Bag Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

SV50E SDG#: DCK20-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/28/2002 19:53	Matthew S Thomas	2.5
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/28/2002 19:08	Matthew S Thomas	12
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/28/2002 19:53	Matthew S Thomas	2.5



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV50E Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865290 Date Analyzed: 07/28/02 Time Analyzed: 19:53
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0901009.D

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
106-97-8	Butane	6.77	23	J D
	Unknown	7.37	12	J D
78-78-4	Butane, 2-methyl-	8.35	74	J D
	Unknown C ₅ H ₁₀ isomer	9.90	8	J D
107-83-5	Pentane, 2-methyl-	11.45	15	J D
96-14-0	Pentane, 3-methyl-	12.05	10	J D
	Unknown aliphatic hydrocarbon	21.76	11	J D
	Unknown siloxane	24.51	14	J D
	Unknown aliphatic hydrocarbon	26.54	12	J D
	Unknown aliphatic hydrocarbon	27.49	10	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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Page 3 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV50E Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865290 Date Analyzed: 07/28/02 Time Analyzed: 19:53
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0901009.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	0.5	U
75-71-8	Dichlorodifluoromethane	1	J D
75-45-6	Chlorodifluoromethane	3	D
76-14-2	Freon 114	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
106-99-0	1,3-Butadiene	3	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-43-4	Dichlorofluoromethane	0.5	U
75-69-4	Trichlorofluoromethane	2	J D
109-66-0	Pentane	30	D
107-02-8	Acrolein	1	U
75-35-4	1,1-Dichloroethene	3	D
76-13-1	Freon 113	2	J D
67-64-1	Acetone	23	D
74-88-4	Methyl Iodide	0.5	U
75-15-0	Carbon Disulfide	5	D
75-05-8	Acetonitrile	1	U
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	3	D
75-65-0	tert-Butyl Alcohol	0.5	U
107-13-1	Acrylonitrile	1	U
156-60-5	trans-1,2-Dichloroethene	3	D
1634-04-4	Methyl t-Butyl Ether	0.5	U
110-54-3	Hexane	9	D
75-34-3	1,1-Dichloroethane	38	D
108-05-4	Vinyl Acetate	0.5	U
156-59-2	cis-1,2-Dichloroethene	160	D
78-93-3	2-Butanone	10	D
141-78-6	Ethyl Acetate	0.5	U
96-33-3	Methyl Acrylate	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	62	D

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Page 4 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV50E Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865290 Date Analyzed: 07/28/02 Time Analyzed: 19:53
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 2.5
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\0901009.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-43-2	Benzene	8	D
540-84-1	Isooctane	5	D
142-82-5	Heptane	3	D
79-01-6	Trichloroethene	74	D
140-88-5	Ethyl Acrylate	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
80-62-6	Methyl Methacrylate	0.5	U
74-95-3	Dibromomethane	0.5	U
123-91-1	1,4-Dioxane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	1	U
108-88-3	Toluene	33	D
111-65-9	Octane	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
97-63-2	Ethyl Methacrylate	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	540	D
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	4	D
1330-20-7	m/p-Xylene	19	D
95-47-6	o-Xylene	7	D
100-42-5	Styrene	0.8	J D
75-25-2	Bromoform	0.5	U
98-82-8	Cumene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
108-86-1	Bromobenzene	0.5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV50E Date Collected: 07/25/02 Date
Lab Sample ID: 3865290 Date Analyzed: 07/28/02 Time
Injection Volume: 100 cc Nominal Volume: 250 cc Dilu
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\J

CAS RN	COMPOUND NAME	CONCENTRATION	UN
622-96-8	4-Ethyltoluene	8	
108-67-8	1,3,5-Trimethylbenzene	3	
98-83-9	Alpha Methyl Styrene	0.5	
95-63-6	1,2,4-Trimethylbenzene	9	
541-73-1	1,3-Dichlorobenzene	1	
106-46-7	1,4-Dichlorobenzene	1	
100-44-7	Benzyl chloride	0.5	
95-50-1	1,2-Dichlorobenzene	1	
67-72-1	Hexachloroethane	0.5	
120-82-1	1,2,4-Trichlorobenzene	3	
87-68-3	Hexachlorobutadiene	1	

U = Compound was undetected at the specified limit of

B = Compound was found in method blank. D = analysis

J = Compound was detected, but below the limit of quan

NOTE: Limits of detection were raised due to the high
of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV59N Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865291 Date Analyzed: 07/28/02 Time Analyzed: 21:29
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1101011.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	5.84	520	J D
78-78-4	Butane, 2-methyl-	8.41	1200	J D
107-83-5	Pentane, 2-methyl-	11.45	300	J D
	Unknown aliphatic hydrocarbon	20.58	140	J D
	Unknown siloxane	24.51	210	J D
	Unknown aliphatic hydrocarbon	26.53	460	J D
	Unknown aliphatic hydrocarbon	27.39	140	J D
	Unknown aliphatic hydrocarbon	27.49	330	J D
	Unknown siloxane	27.99	490	J D
	Unknown aliphatic hydrocarbon	31.08	150	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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Lancaster, PA 17605-2425
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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV59N Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865291 Date Analyzed: 07/28/02 Time Analyzed: 21:29
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1101011.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ppb(v)	Q
115-07-1	Propene	20		U
75-71-8	Dichlorodifluoromethane	20		U
75-45-6	Chlorodifluoromethane	640		D
76-14-2	Freon 114	20		U
74-87-3	Chloromethane	20		U
75-01-4	Vinyl Chloride	20		U
106-99-0	1,3-Butadiene	100		U
74-83-9	Bromomethane	20		U
75-00-3	Chloroethane	170		D
75-43-4	Dichlorofluoromethane	20		U
75-69-4	Trichlorofluoromethane	25		J D
109-66-0	Pentane	210		D
107-02-8	Acrolein	50		U
75-35-4	1,1-Dichloroethene	270		D
76-13-1	Freon 113	50		U
67-64-1	Acetone	600		D
74-88-4	Methyl Iodide	20		U
75-15-0	Carbon Disulfide	120		D
75-05-8	Acetonitrile	50		U
107-05-1	3-Chloropropene	50		U
75-09-2	Methylene Chloride	220		D
75-65-0	tert-Butyl Alcohol	20		U
107-13-1	Acrylonitrile	50		U
156-60-5	trans-1,2-Dichloroethene	20		U
1634-04-4	Methyl t-Butyl Ether	20		U
110-54-3	Hexane	73		J D
75-34-3	1,1-Dichloroethane	190		D
108-05-4	Vinyl Acetate	20		U
156-59-2	cis-1,2-Dichloroethene	470		D
78-93-3	2-Butanone	300		D
141-78-6	Ethyl Acetate	20		U
96-33-3	Methyl Acrylate	20		U
67-66-3	Chloroform	20		U
71-55-6	1,1,1-Trichloroethane	2400		D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV59N Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865291 Date Analyzed: 07/28/02 Time Analyzed: 21:29
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1101011.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	20	U
540-84-1	Isooctane	20	U
142-82-5	Heptane	20	U
79-01-6	Trichloroethene	890	D
140-88-5	Ethyl Acrylate	20	U
78-87-5	1,2-Dichloropropane	20	U
80-62-6	Methyl Methacrylate	20	U
74-95-3	Dibromomethane	20	U
123-91-1	1,4-Dioxane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	480	D
111-65-9	Octane	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
97-63-2	Ethyl Methacrylate	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	19000	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	28	J D
1330-20-7	m/p-Xylene	74	J D
95-47-6	o-Xylene	35	J D
100-42-5	Styrene	23	J D
75-25-2	Bromoform	20	U
98-82-8	Cumene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
96-18-4	1,2,3-Trichloropropane	20	U
108-86-1	Bromobenzene	20	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV59N Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865291 Date Analyzed: 07/28/02 Time Analyzed: 21:29
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1101011.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	20	J D
108-67-8	1,3,5-Trimethylbenzene	20	U
98-83-9	Alpha Methyl Styrene	20	U
95-63-6	1,2,4-Trimethylbenzene	35	J D
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
100-44-7	Benzyl chloride	20	U
95-50-1	1,2-Dichlorobenzene	50	U
67-72-1	Hexachloroethane	20	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	50	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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2216 Rev 9/11/00

**Lancaster Laboratories Sample**

Collected:07/25/2002 15:40

Submitted: 07/27/2002 10:15
Reported: 08/01/2002 at 13:1
Discard: 10/01/2002
SVE59NW Tedlar Bag Sample
Site Code: SC001 RFA#: ET
Dayton Thermal/Dayton, OH

S59NW SDG#: DCK20-04

CAT	Analysis Name
-----	---------------

CAT	Analysis Name
07869	TO 14 VOA Ext. List Tedlar
07869	TO 14 VOA Ext. List Tedlar
07870	TO 14 VOA Ext List cont Tedlar
07870	TO 14 VOA Ext List cont Tedlar

Lancaster Laboratories Sample No. AQ 3865291

Collected:07/25/2002 14:50

by JE

Account Nu

Submitted: 07/27/2002 10:15
Reported: 08/01/2002 at 13:13
Discard: 10/01/2002
SVE59N Tedlar Bag Sample
Site Code: SC001 RFA#: ET02031
Dayton Thermal/Dayton, OH

SV59N SDG#: DCK20-03

CAT	Analysis Name
-----	---------------

CAT	Analysis Name
07869	TO 14 VOA Ext. List Tedlar
07870	TO 14 VOA Ext List cont Tedlar
07870	TO 14 VOA Ext List cont Tedlar

CAS Number	As Received Result	As I Meth Dete Lir
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Laboratory Chronicle

Method	Trial#	Analys: Date and
EPA TO14	1	07/28/200
EPA TO14	1	07/28/200
EPA TO14	1	07/28/200



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S59NW Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865292 Date Analyzed: 07/28/02 Time Analyzed: 23:00
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1301013.D

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.30	49	J D
67-63-0	Isopropyl Alcohol	11.15	48	J D
107-83-5	Pentane, 2-methyl-	11.37	53	J D
	Unknown aliphatic hydrocarbon	20.52	79	J D
	Unknown aliphatic hydrocarbon	21.69	80	J D
	Unknown aliphatic hydrocarbon	26.51	110	J D
104-76-7	1-Hexanol, 2-ethyl-	27.06	38	J D
	Unknown aliphatic hydrocarbon	27.48	68	J D
	Unknown siloxane	27.97	100	J D
	Unknown	31.42	42	J D

B = Compound was found in method blank. D = analysis of diluted sample.

J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59NW Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865292 Date Analyzed: 07/28/02 Time Analyzed: 23:00
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1301013.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	9	J D
75-71-8	Dichlorodifluoromethane	2	U
75-45-6	Chlorodifluoromethane	230	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	12	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	6	J D
109-66-0	Pentane	14	D
107-02-8	Acrolein	8	J D
75-35-4	1,1-Dichloroethene	600	D
76-13-1	Freon 113	10	J D
67-64-1	Acetone	78	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	17	D
75-05-8	Acetonitrile	6	U
107-05-1	3-Chloropropene	6	U
75-09-2	Methylene Chloride	23	D
75-65-0	tert-Butyl Alcohol	2	U
107-13-1	Acrylonitrile	6	U
156-60-5	trans-1,2-Dichloroethene	24	D
1634-04-4	Methyl t-Butyl Ether	2	U
110-54-3	Hexane	17	D
75-34-3	1,1-Dichloroethane	160	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	520	D
78-93-3	2-Butanone	38	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	8	J D
71-55-6	1,1,1-Trichloroethane	3200	D

U = Compound was undetected at the specified limit of quantitation.
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J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.





VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59NW Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865292 Date Analyzed: 07/28/02 Time Analyzed: 23:00
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1301013.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	14		D
107-06-2	1,2-Dichloroethane	2		U
71-43-2	Benzene	4		J D
540-84-1	Isooctane	2		U
142-82-5	Heptane	2		U
79-01-6	Trichloroethene	340		D
140-88-5	Ethyl Acrylate	2		U
78-87-5	1,2-Dichloropropane	2		U
80-62-6	Methyl Methacrylate	2		U
74-95-3	Dibromomethane	2		U
123-91-1	1,4-Dioxane	2		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
108-10-1	4-Methyl-2-Pentanone	6		U
108-88-3	Toluene	53		D
111-65-9	Octane	2		U
10061-02-6	trans-1,3-Dichloropropene	2		U
97-63-2	Ethyl Methacrylate	2		U
79-00-5	1,1,2-Trichloroethane	2		U
127-18-4	Tetrachloroethene	2900		D
591-78-6	2-Hexanone	6		U
124-48-1	Dibromochloromethane	2		U
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	2		U
630-20-6	1,1,1,2-Tetrachloroethane	2		U
100-41-4	Ethylbenzene	3		J D
1330-20-7	m/p-Xylene	10		J D
95-47-6	o-Xylene	4		J D
100-42-5	Styrene	2		U
75-25-2	Bromoform	2		U
98-82-8	Cumene	2		U
79-34-5	1,1,2,2-Tetrachloroethane	2		U
96-18-4	1,2,3-Trichloropropane	2		U
108-86-1	Bromobenzene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S59NW Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865292 Date Analyzed: 07/28/02 Time Analyzed: 23:00
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 12.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1301013.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	U
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	5	J D
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	6	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	6	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3865293

Collected: 07/25/2002 16:30 by JE

Account Number: 10160

Submitted: 07/27/2002 10:15

DaimlerChrysler Corporation

Reported: 08/01/2002 at 13:13

PO Box 537933

Discard: 10/01/2002

Livonia MI 48153-7933

SVE40BN Tedlar Bag Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

S40BN SDG#: DCK20-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/28/2002 23:43	Matthew S Thomas	67
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/29/2002 00:36	Matthew S Thomas	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/28/2002 23:43	Matthew S Thomas	67
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/29/2002 00:36	Matthew S Thomas	10



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: S40BN Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865293 Date Analyzed: 07/29/02 Time Analyzed: 00:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1501015.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown C4H8 isomer	6.67	39	J D
78-78-4	Butane, 2-methyl-	8.22	180	J D
67-63-0	Isopropyl Alcohol	10.94	110	J D
107-83-5	Pentane, 2-methyl-	11.32	190	J D
	Unknown aliphatic hydrocarbon	20.48	130	J D
	Unknown aliphatic hydrocarbon	21.67	120	J D
	Unknown aliphatic hydrocarbon	26.50	170	J D
	Unknown aliphatic hydrocarbon	27.46	190	J D
	Unknown aliphatic hydrocarbon	27.58	39	J D
	Unknown siloxane	27.96	54	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40BN Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865293 Date Analyzed: 07/29/02 Time Analyzed: 00:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1501015.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ppb(v)	Q
115-07-1	Propene	12		D
75-71-8	Dichlorodifluoromethane	2		U
75-45-6	Chlorodifluoromethane	630		D
76-14-2	Freon 114	2		U
74-87-3	Chloromethane	2		U
75-01-4	Vinyl Chloride	2		U
106-99-0	1,3-Butadiene	10		U
74-83-9	Bromomethane	2		U
75-00-3	Chloroethane	2		U
75-43-4	Dichlorofluoromethane	2		U
75-69-4	Trichlorofluoromethane	7		J D
109-66-0	Pentane	56		D
107-02-8	Acrolein	17		D
75-35-4	1,1-Dichloroethene	230		D
76-13-1	Freon 113	25		D
67-64-1	Acetone	88		D
74-88-4	Methyl Iodide	2		U
75-15-0	Carbon Disulfide	30		D
75-05-8	Acetonitrile	5		U
107-05-1	3-Chloropropene	5		U
75-09-2	Methylene Chloride	33		D
75-65-0	tert-Butyl Alcohol	2		U
107-13-1	Acrylonitrile	5		U
156-60-5	trans-1,2-Dichloroethene	37		D
1634-04-4	Methyl t-Butyl Ether	2		U
110-54-3	Hexane	42		D
75-34-3	1,1-Dichloroethane	160		D
108-05-4	Vinyl Acetate	2		U
156-59-2	cis-1,2-Dichloroethene	640		D
78-93-3	2-Butanone	44		D
141-78-6	Ethyl Acetate	2		U
96-33-3	Methyl Acrylate	2		U
67-66-3	Chloroform	2		J D
71-55-6	1,1,1-Trichloroethane	2400		D

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40BN Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865293 Date Analyzed: 07/29/02 Time Analyzed: 00:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1501015.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2		U
107-06-2	1,2-Dichloroethane	2		U
71-43-2	Benzene	6		J D
540-84-1	Isooctane	2		U
142-82-5	Heptane	3		J D
79-01-6	Trichloroethene	570		D
140-88-5	Ethyl Acrylate	2		U
78-87-5	1,2-Dichloropropane	2		U
80-62-6	Methyl Methacrylate	2		U
74-95-3	Dibromomethane	2		U
123-91-1	1,4-Dioxane	2		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
108-10-1	4-Methyl-2-Pentanone	5		U
108-88-3	Toluene	68		D
111-65-9	Octane	2		J D
10061-02-6	trans-1,3-Dichloropropene	2		U
97-63-2	Ethyl Methacrylate	2		U
79-00-5	1,1,2-Trichloroethane	2		U
127-18-4	Tetrachloroethene	1700		D
591-78-6	2-Hexanone	5		U
124-48-1	Dibromochloromethane	2		U
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	2		U
630-20-6	1,1,1,2-Tetrachloroethane	2		U
100-41-4	Ethylbenzene	7		J D
1330-20-7	m/p-Xylene	11		D
95-47-6	o-Xylene	4		J D
100-42-5	Styrene	3		J D
75-25-2	Bromoform	2		U
98-82-8	Cumene	2		U
79-34-5	1,1,2,2-Tetrachloroethane	2		U
96-18-4	1,2,3-Trichloropropane	2		U
108-86-1	Bromobenzene	2		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: S40BN Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865293 Date Analyzed: 07/29/02 Time Analyzed: 00:36
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1501015.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	3	J D
108-67-8	1,3,5-Trimethylbenzene	2	J D
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	6	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	12	D
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Lancaster Laboratories Sample No. AQ 3865294

Collected: 07/25/2002 18:40 by JE

Account Number: 10160

Submitted: 07/27/2002 10:15

Reported: 08/01/2002 at 13:13

Discard: 10/01/2002

SVE59INE Tedlar Bag Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

DaimlerChrysler Corporation

PO Box 537933

Livonia MI 48153-7933

59INE SDG#: DCK20-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/29/2002 10:10	Matthew S Thomas	1
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/29/2002 01:19	Matthew S Thomas	10
07870	TO 14 VOA Ext List cont Tedlar	EPA TO14	1	07/29/2002 10:10	Matthew S Thomas	1



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: 59INE Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865294 Date Analyzed: 07/29/02 Time Analyzed: 10:10
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\2101021.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
75-68-3	Ethane, 1-chloro-1,1-difluoro-	6.23	7	J
75-07-0	Acetaldehyde	7.13	4	J
78-78-4	Butane, 2-methyl-	8.10	3	J
67-63-0	Isopropyl Alcohol	10.81	9	J
	Unknown siloxane	24.44	5	J
127-19-5	Acetamide, N,N-dimethyl-	24.72	10	J
	Unknown	25.71	4	J
	Unknown aliphatic hydrocarbon	26.48	8	J
104-76-7	1-Hexanol, 2-ethyl-	27.02	3	J
	Unknown siloxane	27.94	6	J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.



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Page 3 of 5

VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INE Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865294 Date Analyzed: 07/29/02 Time Analyzed: 10:10
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\2101021.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	0.4	J
75-71-8	Dichlorodifluoromethane	1	
75-45-6	Chlorodifluoromethane	15	
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.2	U
75-01-4	Vinyl Chloride	0.2	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	3	
109-66-0	Pentane	3	
107-02-8	Acrolein	2	
75-35-4	1,1-Dichloroethene	2	
76-13-1	Freon 113	0.5	U
67-64-1	Acetone	27	
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	12	
75-05-8	Acetonitrile	6	
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	3	
75-65-0	tert-Butyl Alcohol	0.2	U
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.4	J
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	2	
75-34-3	1,1-Dichloroethane	3	
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	9	
78-93-3	2-Butanone	7	
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	0.5	J
71-55-6	1,1,1-Trichloroethane	68	

U = Compound was undetected at the specified limit of quantitation.

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J = Compound was detected, but below the limit of quantitation.



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2216 Rev 9/11/00



VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INE Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865294 Date Analyzed: 07/29/02 Time Analyzed: 10:10
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\2101021.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	2	
540-84-1	Isooctane	0.8	J
142-82-5	Heptane	1	
79-01-6	Trichloroethene	150	D
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.7	J
108-88-3	Toluene	20	
111-65-9	Octane	1	
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	220	D
591-78-6	2-Hexanone	1	
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	4	
1330-20-7	m/p-Xylene	16	
95-47-6	o-Xylene	7	
100-42-5	Styrene	1	
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.4	J
79-34-5	1,1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INE Date Collected: 07/25/02 Date Received: 07/27/02
Lab Sample ID: 3865294 Date Analyzed: 07/29/02 Time Analyzed: 10:10
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\2101021.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	
108-67-8	1,3,5-Trimethylbenzene	2	
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	6	
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

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B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.



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2216 Rev 9/11/00



Lancaster Laboratories Sample No. AQ 3865295

Collected: 07/26/2002 11:40 by JE

Account Number: 10160

Submitted: 07/27/2002 10:15

DaimlerChrysler Corporation

Reported: 08/01/2002 at 13:14

PO Box 537933

Discard: 10/01/2002

Livonia MI 48153-7933

SVE59INW Tedlar Bag Sample

Site Code: SC001 RFA#: ET02031

Dayton Thermal/Dayton, OH

59INW SDG#: DCK20-07*

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Detection	Dilution
					Limit	Factor

Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution
						Factor
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/29/2002 02:46	Matthew S Thomas	67
07869	TO 14 VOA Ext. List Tedlar	EPA TO14	1	07/29/2002 03:32	Matthew S Thomas	10
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/29/2002 02:46	Matthew S Thomas	67
	Tedlar					
07870	TO 14 VOA Ext List cont	EPA TO14	1	07/29/2002 03:32	Matthew S Thomas	10
	Tedlar					



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: 59INW Date Collected: 07/26/02 Date Received: 07/27/02
Lab Sample ID: 3865295 Date Analyzed: 07/29/02 Time Analyzed: 03:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1901019.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
78-78-4	Butane, 2-methyl-	8.11	63	J D
67-63-0	Isopropyl Alcohol	10.83	57	J D
107-83-5	Pentane, 2-methyl-	11.23	20	J D
127-19-5	Acetamide, N,N-dimethyl-	24.83	52	J D
	Unknown aliphatic hydrocarbon	26.50	68	J D
104-76-7	1-Hexanol, 2-ethyl-	27.03	25	J D
	Unknown aliphatic hydrocarbon	27.45	39	J D
	Unknown aliphatic hydrocarbon	27.58	25	J D
	Unknown siloxane	27.95	80	J D
	Unknown	31.36	29	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that
of the internal standard with retention time closest to the TIC.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INW Date Collected: 07/26/02 Date Received: 07/27/02
Lab Sample ID: 3865295 Date Analyzed: 07/29/02 Time Analyzed: 03:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1901019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
115-07-1	Propene	15	D
75-71-8	Dichlorodifluoromethane	3	J D
75-45-6	Chlorodifluoromethane	64	D
76-14-2	Freon 114	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
106-99-0	1,3-Butadiene	10	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	20	D
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	7	J D
109-66-0	Pentane	19	D
107-02-8	Acrolein	13	D
75-35-4	1,1-Dichloroethene	150	D
76-13-1	Freon 113	7	J D
67-64-1	Acetone	100	D
74-88-4	Methyl Iodide	2	U
75-15-0	Carbon Disulfide	32	D
75-05-8	Acetonitrile	5	U
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	40	D
75-65-0	tert-Butyl Alcohol	2	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	3	J D
1634-04-4	Methyl t-Butyl Ether	2	U
110-54-3	Hexane	10	D
75-34-3	1,1-Dichloroethane	53	D
108-05-4	Vinyl Acetate	2	U
156-59-2	cis-1,2-Dichloroethene	150	D
78-93-3	2-Butanone	42	D
141-78-6	Ethyl Acetate	2	U
96-33-3	Methyl Acrylate	2	U
67-66-3	Chloroform	2	U
71-55-6	1,1,1-Trichloroethane	1200	D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.





VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INW Date Collected: 07/26/02 Date Received: 07/27/02
Lab Sample ID: 3865295 Date Analyzed: 07/29/02 Time Analyzed: 03:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1901019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	5	J D
540-84-1	Isooctane	2	U
142-82-5	Heptane	2	J D
79-01-6	Trichloroethene	390	D
140-88-5	Ethyl Acrylate	2	U
78-87-5	1,2-Dichloropropane	2	U
80-62-6	Methyl Methacrylate	2	U
74-95-3	Dibromomethane	2	U
123-91-1	1,4-Dioxane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	78	D
111-65-9	Octane	3	J D
10061-02-6	trans-1,3-Dichloropropene	2	U
97-63-2	Ethyl Methacrylate	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2700	D
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	6	J D
1330-20-7	m/p-Xylene	20	D
95-47-6	o-Xylene	8	J D
100-42-5	Styrene	4	J D
75-25-2	Bromoform	2	U
98-82-8	Cumene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
108-86-1	Bromobenzene	2	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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VOLATILE ORGANICS IN AIR
TEDLAR BAG SAMPLE
ANALYSIS DATA SHEET

Sample No.: 59INW Date Collected: 07/26/02 Date Received: 07/27/02
Lab Sample ID: 3865295 Date Analyzed: 07/29/02 Time Analyzed: 03:32
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUL28\1901019.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
622-96-8	4-Ethyltoluene	5	J D
108-67-8	1,3,5-Trimethylbenzene	3	J D
98-83-9	Alpha Methyl Styrene	2	U
95-63-6	1,2,4-Trimethylbenzene	8	J D
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	2	U
95-50-1	1,2-Dichlorobenzene	5	U
67-72-1	Hexachloroethane	2	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.



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Quality Control Summary

Page 1 of 2

 Client Name: DaimlerChrysler Corporation
 Reported: 08/01/02 at 01:14 PM

Group Number: 816691

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A022101AA	Sample number(s): 3865289-3865295							
tert-Butyl Alcohol	N.D.	.2	ppb (v)					
Propene	N.D.	.2	ppb (v)					
Dichlorodifluoromethane	N.D.	.2	ppb (v)					
Chlorodifluoromethane	N.D.	1.	ppb (v)					
Freon 114	N.D.	.2	ppb (v)					
Chloromethane	N.D.	.2	ppb (v)					
Vinyl Chloride	N.D.	.2	ppb (v)	135		43-158		
1,3-Butadiene	N.D.	1.	ppb (v)					
Bromomethane	N.D.	.2	ppb (v)					
Chloroethane	N.D.	.2	ppb (v)					
Dichlorofluoromethane	N.D.	.2	ppb (v)					
Trichlorofluoromethane	N.D.	.2	ppb (v)					
Pentane	N.D.	.2	ppb (v)					
Acrolein	N.D.	.5	ppb (v)					
1,1-Dichloroethene	N.D.	.2	ppb (v)					
Freon 113	N.D.	.5	ppb (v)					
Acetone	N.D.	1.	ppb (v)					
Methyl Iodide	N.D.	.2	ppb (v)					
Carbon Disulfide	N.D.	.5	ppb (v)					
Acetonitrile	N.D.	.5	ppb (v)					
3-Chloropropene	N.D.	.5	ppb (v)					
Methylene Chloride	N.D.	.5	ppb (v)					
Acrylonitrile	N.D.	.5	ppb (v)					
trans-1,2-Dichloroethene	N.D.	.2	ppb (v)					
Methyl t-Butyl Ether	N.D.	.2	ppb (v)					
Hexane	N.D.	.2	ppb (v)					
1,1-Dichloroethane	N.D.	.2	ppb (v)					
Vinyl Acetate	N.D.	.2	ppb (v)					
cis-1,2-Dichloroethene	N.D.	.2	ppb (v)					
2-Butanone	N.D.	.5	ppb (v)					
Ethyl Acetate	N.D.	.2	ppb (v)					
Methyl Acrylate	N.D.	.2	ppb (v)					
Chloroform	N.D.	.2	ppb (v)					
1,1,1-Trichloroethane	N.D.	.2	ppb (v)	117		54-174		
Carbon Tetrachloride	N.D.	.2	ppb (v)					
1,2-Dichloroethane	N.D.	.2	ppb (v)					
Benzene	N.D.	.2	ppb (v)	113		51-163		
Isooctane	N.D.	.2	ppb (v)					
Heptane	N.D.	.2	ppb (v)					
Trichloroethene	N.D.	.2	ppb (v)	105		56-140		
Ethyl Acrylate	N.D.	.2	ppb (v)					
1,2-Dichloropropane	N.D.	.2	ppb (v)					
Methyl Methacrylate	N.D.	.2	ppb (v)					
Dibromomethane	N.D.	.2	ppb (v)					
1,4-Dioxane	N.D.	.2	ppb (v)					
Bromodichloromethane	N.D.	.2	ppb (v)					
cis-1,3-Dichloropropene	N.D.	.2	ppb (v)					
4-Methyl-2-Pentanone	N.D.	.5	ppb (v)					
Toluene	N.D.	.2	ppb (v)					
Octane	N.D.	.2	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.


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Quality Control Summary

Page 2 of 2

 Client Name: DaimlerChrysler Corporation
 Reported: 08/01/02 at 01:14 PM

Group Number: 816691

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,3-Dichloropropene	N.D.	.2	ppb (v)					
Ethyl Methacrylate	N.D.	.2	ppb (v)					
1,1,2-Trichloroethane	N.D.	.2	ppb (v)					
Tetrachloroethene	N.D.	.2	ppb (v)					
2-Hexanone	N.D.	.5	ppb (v)					
Dibromochloromethane	N.D.	.2	ppb (v)					
1,2-Dibromoethane	N.D.	.2	ppb (v)					
Chlorobenzene	N.D.	.2	ppb (v)					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppb (v)					
Ethylbenzene	N.D.	.2	ppb (v)	95		49-152		
m/p-Xylene	N.D.	.2	ppb (v)					
o-Xylene	N.D.	.2	ppb (v)					
Styrene	N.D.	.2	ppb (v)					
Bromoform	N.D.	.2	ppb (v)					
Cumene	N.D.	.2	ppb (v)					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppb (v)					
1,2,3-Trichloropropane	N.D.	.2	ppb (v)					
Bromobenzene	N.D.	.2	ppb (v)					
4-Ethyltoluene	N.D.	.2	ppb (v)					
1,3,5-Trimethylbenzene	N.D.	.2	ppb (v)					
Alpha Methyl Styrene	N.D.	.2	ppb (v)					
1,2,4-Trimethylbenzene	N.D.	.2	ppb (v)					
1,3-Dichlorobenzene	N.D.	.5	ppb (v)					
1,4-Dichlorobenzene	N.D.	.5	ppb (v)	66		43-127		
Benzyl chloride	N.D.	.2	ppb (v)					
1,2-Dichlorobenzene	N.D.	.5	ppb (v)					
Hexachloroethane	N.D.	.2	ppb (v)					
1,2,4-Trichlorobenzene	N.D.	1.	ppb (v)					
Hexachlorobutadiene	N.D.	.5	ppb (v)					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.


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1. DATA EVALUATION AND REDUCTION

1.1 DATA QUALITY ASSESSMENT

A data quality assessment was conducted, which included a review of holding times; laboratory, field and trip blanks; laboratory control standards (LCSs); matrix spike/matrix spike duplicates (MS/MSDs); surrogates; reporting limits; and field duplicate precision. This section presents the results of the data quality assessment for each site type assessed in the PRE. Qualifier codes have been placed next to results so that the data user can assess the qualitative and/or quantitative reliability of the results.

1.1.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Table 1-1 summarizes matrix spike/matrix spike duplicate exceedances and the results qualified. Results qualified due to high MS/MSD recoveries are considered to have a potential for high bias, while results qualified due to low MS/MSD recoveries are considered to have a potential for low bias. Results qualified due to high Relative Percent Differences (RPDs) are considered to have a potential for variability in the results reported.

1.1.2 REPORTING LIMITS

Samples which exceeded the calibration range on the instrument were analyzed at dilutions. These dilutions resulted in elevated reporting limits. Reporting limits that exceeded the (GUPU) Standards are summarized in Table 1-2.

1.1.3 FIELD DUPLICATE PRECISION

Field duplicate precision is summarized in Table 1-3. The field duplicate precision was within acceptable limits with the exception of sample PZ0071. Cis-1,2-dichloroethene was detected in the sample, but not in the field duplicate. In addition, trichloroethene was detected in the field duplicate, but not the original samples. cis-1,2-Dichloroethene and trichloroethene results for samples PZ0071 and PZ0071DUP were qualified estimated (UJ and J) due to field duplicate imprecision.

1.1.4 OVERALL ASSESSMENT

Samples collected were successfully analyzed and are acceptable for project use. Data quality problems were not found during review of holding times; laboratory, field and trip blanks; laboratory control standards (LCSs); and surrogates. Results were qualified estimated (UJ and J) due to MS/MSD exceedances and field duplicate imprecision. Results qualified as estimated are usable, however, sample bias may be associated with these results. Usable groundwater results were compared to residential GCNs groundwater remediation goals.

1.2 SAMPLE REPORTING LIMIT EVALUATION

The potential presence of chemicals in environmental media at concentrations below the highest sample reporting limit could result in a potential underestimation of cancer risk or adverse noncarcinogenic health effects from exposure to these media. However, it is also possible that these chemicals are not present, producing incomplete exposure pathways for human receptors.

If an Ohio EPA Voluntary Action Program (VAP) Generic Unrestricted Potable Use Standard value for groundwater did not exist, an available Federal maximum contaminant concentration (MCL) was used.

If sample reporting limit problems were evident (that is, sample reporting limits exceeded the screening criteria), these chemicals are qualitatively discussed in the uncertainty section (see Section 7.1).

1.3 DATA REDUCTION

The entire analytical data set was "reduced" to a useable data set using procedures that are standard in the risk assessment field. For this PRE, these procedures included (a) selecting between original and field duplicate samples, (b), eliminating elevated nondetect values, and (c) preparing summary statistics on the analytical results.

1.3.1 Field Duplicate Samples

For the environmental groundwater medium, field duplicates were used in the following manner:

- The original sample and field duplicate results were averaged when both were detected quantities.
- When one sample or the other was "nondetect", the "nondetect" was averaged with the detected concentration using a value of $\frac{1}{2}$ the sample reporting limit for the "nondetect." If there was a qualifier on the detected concentration, that qualifier remained with the "averaged" value.
- When both samples were "nondetect", the two values were averaged using the full reporting limit. Because the method to estimate the EPC uses one-half the sample reporting limit to generate the 95th upper confidence limit (UCL) on the arithmetic mean, it is not appropriate to use one-half the reporting limit twice (i.e., first in averaging the nondetect values and again in generating the UCL).

1.3.2 Elevated Nondetect Values

Because of one or more sample-specific problems (e.g., matrix interferences), sample reporting limits for a particular chemical in some samples may be unusually high, sometimes greatly exceeding the positive results reported for the same chemical in other samples from the data set, which could present problems in calculating the 95 percent UCL (EPA 1989). Therefore, those sample reporting limits that exceed the maximum detected concentration by 2 times or greater are not included in the statistical analysis.

TABLE 1-1

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE EXCEEDANCES
1ST QUARTER 2002 GROUNDWATER SAMPLING EVENT
DAYTON THERMAL PRODUCTS**

Batch	Compound	MS/MSD % Recovery	Recovery Limits	RPD	RPD Limit	Results Qualified
L020941AA	Trichloroethene	135/---	82-133	---	30	Results qualified estimated (J): MW039S PZ028D PZ029I PZ029D PZ031I PZ039I PZ039D
L020942AA	Bromomethane Chloroethane	--- ---	36-133 55-129	33 46	30 30	None. Not detected in associated samples results not qualified.
M020871AA M020871AB	1,2-Dichloropropane	80	82-128	---	---	Associated results qualified estimated (UJ and J): AS001 MW007S MW008S MWA004 MWB005 PZ007I PZ007IDUP PZ008I PZ008D PZ009D FB032602 Trip Blank
NOTES: --- Results within recovery or RPD limits. J Estimated value. MS/MSD Matrix Spike/Matrix Spike Duplicate RPD Relative Percent Difference. UJ Estimated quantitation limit.						

TABLE 1-2

**SUMMARY OF RESULTS WITH REPORTING LIMITS EXCEEDING GUSU STANDARD
DAYTON THERMAL PRODUCTS**

Field ID	PARAMETER	RESULT (ug/L)	GUPU Standard (ug/L)
MW010S	Methylene Chloride	10 U	5
MW028S	1,2-Dichloroethane	10 U	5
MW028S	1,2-Dichloropropane	10 U	5
MW028S	Carbon Tetrachloride	10 U	5
MW028S	Methylene Chloride	20 U	5
MW028S	Tetrachloroethene	10 U	5
MW028S	Vinyl Chloride	10 U	2
MW029S	1,1-Dichloroethene	20 U	7
MW029S	1,2-Dichloroethane	20 U	5
MW029S	1,2-Dichloropropane	20 U	5
MW029S	Carbon Tetrachloride	20 U	5
MW029S	Methylene Chloride	40 U	5
MW029S	Tetrachloroethene	20 U	5
MWA004	1,2-Dichloroethane	20 U	5
MWA004	1,2-Dichloropropane	20 U	5
MWA004	Carbon Tetrachloride	20 U	5
MWA004	Methylene Chloride	40 U	5
MWA004	Tetrachloroethene	20 U	5
PZ008I	1,1-Dichloroethene	10 U	7
PZ008I	1,2-Dichloroethane	10 U	5
PZ008I	1,2-Dichloropropane	10 U	5
PZ008I	Carbon Tetrachloride	10 U	5
PZ008I	Methylene Chloride	20 U	5
PZ008I	Vinyl Chloride	10 U	2
PZ010I	1,1-Dichloroethene	20 U	7
PZ010I	1,2-Dichloroethane	20 U	5
PZ010I	1,2-Dichloropropane	20 U	5
PZ010I	Carbon Tetrachloride	20 U	5
PZ010I	Methylene Chloride	40 U	5
PZ010I	Tetrachloroethene	20 U	5
NOTES:			
GUPU - General Unrestricted Potable Use Standard.			
U - Undetected.			

TABLE 1-3
FIELD DUPLICATE PRECISION
1ST QUARTER 2002 GROUNDWATER SAMPLING EVENT
DAYTON THERMAL PRODUCTS

Sample ID	Field Duplicate ID	Laboratory	Compound	Units	Sample Concentration	Field Duplicate Concentration	RPD
MW015S	MW015S DUP	Lancaster	1,1,1-Trichloroethane	ug/L	2 J	2 J	0
			Tetrachloroethene	ug/L	110	110	0
MWB004	MWB004 DUP	Lancaster	Trichloroethene	ug/L	4 J	4 J	0
PZ007I	PZ007I DUP	Lancaster	cis-1,2-Dichloroethene	ug/L	6	ND	---
			Trichloroethene	ug/L	ND	19	---
PZ027D	PZ027D DUP	Lancaster	VOCs	ug/L	ND	ND	---
PZ033I	PZ033I DUP	Lancaster	cis-1,2-Dichloroethene	ug/L	3 J	3 J	0
			Trichloroethene	ug/L	40	42	
NOTES: --- RPD not calculated, compound not detected in either the sample or its field duplicate. J Positive value qualified as estimated. ND Compounds not detected in field duplicate pair. RPD Relative Percent Difference. VOCs Volatile Organic Compounds.							

3745-300-08 Generic numerical standards.

(A) Definitions. As used in this rule:

- (1) "Generic direct-contact soil standard" or "GDCS" means a generic numerical standard based on a single chemical exposure resulting from ingestion of soil, dermal contact with soil and inhalation of volatile and particulate emissions from soil.
- (2) "Generic numerical standard" or "GNS" means a concentration of a hazardous substance or petroleum that exists on a property that ensures protection of public health and safety and the environment for the reasonable exposures associated with a residential, commercial or industrial land use, construction or excavation activities, or potable ground water use. For purposes of this chapter, generic numerical standards include generic direct-contact soil standards, generic unrestricted potable use standards, and surface water standards.
- (3) "Support document for generic standards" means the "Support Document for the Development of Generic Numerical Standards and Risk Assessment Procedures," Ohio EPA, February 2002.

(B) Generic direct-contact soil standards.

(1) Applicability.

- (a) The generic direct-contact soil standards at paragraph (B)(3) of this rule may apply to a property unless any of the circumstances identified in paragraphs (B)(1)(b), (B)(1)(c), and (B)(1)(d) of this rule apply.
- (b) A property-specific risk assessment must be conducted in accordance with the procedures established in rule 3745-300-09 of the Administrative Code, to determine applicable standards in place of or in addition to using the generic direct-contact soil standards, if any of the following apply to the property:
 - (i) The exposure pathways as identified in accordance with paragraph (D)(2) of rule 3745-300-07 of the Administrative Code, for an intended land use, or construction or excavation activity, include pathways that are not listed in the support document for generic standards for that intended land use, or construction or excavation activity;
 - (ii) The exposure factors for the intended land use, or construction or excavation activity include exposure factor values not listed in the support document for generic standards or receptor populations that are not listed in paragraph (B)(2)(c) of this rule;

- (iii) The chemicals of concern located on the property are not included in paragraph (B)(3) of this rule. If only some of the chemicals of concern identified have a generic direct-contact soil standard listed in paragraph (B)(3) of this rule, a volunteer may use the applicable generic direct-contact soil standards for the chemicals of concern having listed standards. To determine applicable standards for the chemicals of concern that do not have generic direct-contact soil standards, the volunteer must conduct a property-specific risk assessment in accordance with rule 3745-300-09 of the Administrative Code. When using a combination of generic direct-contact soil standards and applicable standards determined by a property-specific risk assessment, the volunteer must adjust the values of the applicable standards, in accordance with paragraph (B)(2)(b) of this rule, to meet the human health risk goals described in paragraphs (B)(1)(e) of this rule; or
 - (iv) It is determined, as a result of a "Phase II Property Assessment" conducted in accordance with rule 3745-300-07 of the Administrative Code, that important ecological resources or sediments are impacted by hazardous substances or petroleum.
- (c) If radioactive materials are identified at a property, the property may be subject to the Atomic Energy Act of 1954, 68 Stat. 919, 42 U.S.C.A. 2011, as amended, and regulations adopted thereunder and Chapters 3701. and 3747. of the Revised Code and rules adopted thereunder.

[Comment: Radioactive materials, separate or mixed with hazardous substances or petroleum, are not encompassed by this chapter or Chapter 3746. of the Revised Code.]

- (d) If polychlorinated biphenyls (PCBs) are identified at a property, the property may be subject to cleanup levels or other provisions of the Toxic Substances Control Act, 90 Stat. 2003 (1976), 15 U.S.C.A. 2601, as amended, and regulations adopted thereunder.

[Comment: Federal regulations contained in 40 C.F.R. part 761 (effective Aug. 28, 1998) authorize alternate PCB cleanup levels at a property contingent on implementation of institutional controls, or engineering controls or other remedy subject to operation and maintenance. Compliance with the federal cleanup levels and related provisions may serve to comply in part with applicable provisions of this chapter. For example, use of a compacted soil cap pursuant to 40 C.F.R. part 761 to cover PCBs exceeding one part per million in soils may comprise part of a minimum two foot point of compliance for commercial or industrial land use, or an engineering control subject to operation and maintenance under this chapter.]

- (e) If the generic direct-contact soil standards, listed in paragraph (B)(3) of this rule are applied to one or more identified areas of the property and applicable standards, as determined in accordance with rule 3745-300-09 of the Administrative Code, are applied to one or more other areas of the property, then the volunteer must ensure that the risks for the property do not exceed:
 - (i) One excess cancer in a population of 100,000 (1×10^{-5}); and
 - (ii) A hazard index of 1.

(2) Assumptions.

(a) Single chemical.

The generic direct-contact soil standards presented in paragraph (B)(3) of this rule assume a single chemical of concern is present on a property.

- (i) The generic direct-contact soil standards set forth in paragraph (B)(3) of this rule are based on the following risk goals. For the purposes of this rule, the term "risk goal" includes both carcinogenic risk and noncarcinogenic hazard.
 - (a) For hazardous substances having carcinogenic effects, the chemical-specific carcinogenic risk must not exceed one excess cancer in a population of 100,000 (i.e., 1×10^{-5}); and
 - (b) For hazardous substances having noncarcinogenic effects, the chemical-specific risk must not exceed a hazard index of 1.
- (ii) The concentration of a chemical of concern, as determined in accordance with paragraph (D)(6) of rule 3745-300-07 of the Administrative Code, must not exceed the single chemical generic direct-contact soil standard for that chemical.

(b) Cumulative adjustment for multiple chemicals.

When more than one chemical of concern is present on a property and an applicable generic direct-contact soil standard for each of the chemicals of concern is contained in paragraph (B)(3)(a)(ii), (B)(3)(b), (B)(3)(c) or (B)(3)(d) of this rule, the standard for each chemical of concern must be adjusted to meet the risk goals described in paragraph (B)(2)(a) of this rule. A cumulative adjustment for multiple chemicals must also be made when using a combination of generic direct-contact soil standards and applicable standards, as determined by a property specific risk assessment. The

cumulative adjustment must be made in accordance with paragraph (D)(1) of this rule.

[Comment: A cumulative adjustment for multiple chemicals is made independently of, and is not additive for, each environmental media and land use and activity categories. For example, when more than one chemical of concern is present in soils and the land use category is industrial with construction or excavation activity, the cumulative adjustment for multiple chemicals is not combined for the construction or excavation activity and the industrial land use.]

(c) Land use and activity categories.

The generic direct-contact soil standards established in this rule are based upon the intended use of the property after the completion of a voluntary action. Land use and activity categories must be determined as follows:

(i) Residential land use category.

Residential land use is land use with a high frequency of potential exposure of adults and children to dermal contact with soil, inhalation of vapors and particles from soil and ingestion of soil. Residential land use is considered protective for, and may be applied to, all categories of land use, without further restriction. Examples of residential land uses include, but are not limited to residences; day care facilities; schools, colleges and other educational institutions; nursing homes, elder care and other long-term health care facilities; and correctional facilities; and may include green spaces and recreational areas.

(ii) Commercial land use category.

Commercial land use is land use with potential exposure of adult workers during a business day and potential exposures of adults and children who are customers, patrons or visitors to commercial facilities during the business day. Commercial land use has potential exposure of adults to dermal contact with soil, inhalation of vapors and particles from soil and ingestion of soil. Examples of commercial land uses include, but are not limited to warehouses; building supply facilities; retail gasoline stations; automobile service stations; automobile dealerships; retail warehouses; repair and service establishments for appliances and other goods; professional offices; banks and credit unions; office buildings; retail businesses selling food or merchandise; golf courses; hospitals and clinics; religious institutions; hotels; motels; and parking facilities.

(iii) Industrial land use category.

Industrial land use is land use with potential exposure of adult workers during a business day and potential exposures of adults and children who are visitors to industrial facilities during the business day. Industrial land use has potential exposure of adults to dermal contact with soil, inhalation of vapors and particles from soil and ingestion of soil. Examples of industrial land uses include, but are not limited to: lumberyards; power plants; manufacturing facilities such as metal-working shops, plating shops, blast furnaces, coke plants, oil refineries, brick factories, chemical plants and plastics plants; assembly plants; non-public airport areas; limited access highways; railroad switching yards; and marine port facilities.

[Comment: For the majority of applicable standards under this chapter, the generic direct-contact soil standards derived for the commercial land use category and the industrial land use category are equivalent. As an example, the generic direct-contact soil standards listed in table III of this rule apply to both commercial land use and industrial land use. The distinction between commercial and industrial land use is maintained for application of paragraph (B)(3)(a) of this rule and application of paragraph (C)(1)(b) of rule 3745-300-09 of the Administrative Code.]

- (iv) Construction or excavation activities. Construction or excavation activities include invasive activities that result in potential exposure of adult workers to contact with environmental media during the business day for a portion of one year. Exposures during construction or excavation activities are of greater intensity and shorter duration than those for the commercial and industrial land use categories. Construction or excavation activities have potential exposures of adults to dermal contact with soil, inhalation of vapors and particles from soil, and ingestion of soil. Examples of construction or excavation activities include but are not limited to maintenance or installation of utilities; installation of building footers or foundations; grading; trenching; or laying utility lines or cables; and repair of engineering controls where there is significant exposure to soils.

[Comment: Generic direct contact soil standards for construction or excavation activities are applicable in addition to the generic direct contact soil standards derived for residential, commercial, or industrial land use when construction activities are reasonably anticipated at a property. Direct contact soil standards for construction or excavation activities may apply to exposure pathways both within and below the point of compliance, as determined in accordance with paragraph (G) of rule 3745-300-07 of the Administrative Code.]

[Comment: A volunteer must select a generic land use or activity category consistent with the exposure factors for the generic land use or activity category

contained in paragraph (B)(2)(c) of this rule when the exposure assumptions determined for the property are consistent with the exposure factor distributions used to calculate the generic direct-contact soil standards for the selected generic land use or activity category. The exposure factor distributions for the land use and activity categories are contained in the support document for generic standards. For example, if a volunteer has a property for which the intended land use is a park and the exposure assumptions are consistent with all of the exposure factor distributions contained in the support document for generic standards for the residential land use category, the volunteer must apply the residential generic direct contact standards listed in paragraph (B)(3) of this rule.]

[Comment: If a volunteer has an intended use for a property which is included within the residential, commercial or industrial land use category but the exposure assumptions determined for a portion of the property are not consistent with exposure factor distributions used to calculate the generic direct-contact soil standards for the land use category, the volunteer may divide the property into two (or more) portions by legal description, and apply the appropriate generic direct contact standards to each portion separately. For example, if a volunteer has a property that is a university where the exposure assumptions for the area where the dormitories are located are consistent with the residential exposure factor distributions and the exposure assumptions for the area where the teaching facilities are located are consistent with the commercial exposure factor distributions, the volunteer may divide the property into a residential land use category portion and a commercial land use category portion. The volunteer needs to provide a separate legal description of each portion of the property subject to a separate land use category and apply the appropriate institutional control as directed by paragraph (G) of rule 3745-300-07 of the Administrative Code. Division of the property is only appropriate when separated land uses can be reasonably maintained.]

(d) Points of compliance.

The volunteer must comply with the applicable standards at all points of compliance at the property, for each environmental media and complete exposure pathway, in accordance with paragraph (G) of rule 3745-300-07 of the Administrative Code.

[Comment: Paragraph (G) of rule 3745-300-07 of the Administrative Code describes how applicable standards and the points of compliance are determined for each environmental media and complete exposure pathway for a property. For the unrestricted residential land use category, the point of compliance is a minimum depth of ten feet from the property's surface. For the commercial and the industrial land use categories, the point of compliance is a minimum depth of two feet from the property's surface.]

(3) Generic direct-contact soil standards.

(a) Petroleum standards.

- (i) The generic direct-contact soil standards for petroleum at commercial or residential properties are the standards established in rules adopted under division (B) of section 3737.882 of the Revised Code, as provided in division (B)(1) of section 3746.04 of the Revised Code.

[Comment: The standards adopted under division (B) of section 3737.882 of the Revised Code are located in rules adopted by the state fire marshal. Division (B) of section 3737.882 of the Revised Code provides the state fire marshal's authority to establish standards for corrective actions for suspected and confirmed releases of petroleum. The state fire marshal's bureau of underground storage tank regulations (BUSTR) administers the rules adopted under this authority. BUSTR may be contacted for information on how to comply with the corrective action standards applicable to petroleum releases at residential and commercial properties.]

- (ii) Petroleum standards for industrial land use and construction and excavation activities.

The generic direct-contact soil standards for total petroleum hydrocarbons for industrial land use and construction and excavation activities must be determined by the following method:

- (a) If the total petroleum hydrocarbons in the soils on the property come from light petroleum fractions, such as natural gasoline, gasohol and naphtha solvents, the soils on the property must be analyzed for benzene, toluene, ethylbenzene, methyl tert-butyl ether (MTBE) and total xylenes. The concentrations of chemicals of concern in soils on the property must meet the generic direct-contact soil standards listed in table III of this rule for the chemicals specified in this subparagraph for the industrial land use category, or, as appropriate, table IV of this rule for construction and excavation activities. In addition, the concentrations of total petroleum hydrocarbons in the soils on the property must not exceed the residual soil saturation concentration listed in table I of this paragraph for the property-specific soil type and petroleum fraction.
- (b) If the total petroleum hydrocarbons in the soils on the property come from middle petroleum fractions, such as kerosene, diesel fuel and jet fuel, the soils on the property must be analyzed for benzene, toluene, ethylbenzene, total xylenes, naphthalene,

benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene, acenaphthene, anthracene, fluoranthene, fluorene, MTBE and pyrene. The concentrations of chemicals of concern in soils on the property must meet the generic direct-contact soil standards listed in table III of this rule for the chemicals specified in this subparagraph for the industrial land use category, or, as appropriate, table IV of this rule for construction and excavation activities. In addition, the concentration of total petroleum hydrocarbons in the soils on the property must not exceed the residual saturation concentration listed in table I of this paragraph for the property-specific soil type and petroleum fraction.

- (c) If the total petroleum hydrocarbons in the soils on the property come from heavy petroleum fractions, such as hydraulic oil, lube oil, and residual fuel oils, the soils on the property must be analyzed for benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene, acenaphthene, anthracene, fluoranthene, fluorene and pyrene. Where petroleum hydrocarbons come from products of heavy petroleum fractions that have been used in a process such as used motor oil, used cutting oil, or hydraulic oil, additional chemicals of concern that may be typical impurities of the used heavy petroleum fractions product must be identified and included in the analysis as appropriate. The concentrations of chemicals of concern in soils on the property must meet the generic direct-contact soil standards listed in table III of this rule for the chemicals specified in this subparagraph for the industrial land use category, or, as appropriate, table IV of this rule for construction and excavation activities. In addition, the concentration of total petroleum hydrocarbons in the soils on the property must not exceed the residual saturation concentration listed in table I of this rule for the property-specific soil type and petroleum fraction.
- (d) If the total petroleum hydrocarbons in the soils on the property come from an unknown source, the soils on the property must be analyzed for benzene, ethylbenzene, toluene, total xylenes, *n*-hexane, naphthalene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene, acenaphthene, anthracene, fluoranthene, fluorene and pyrene. The concentrations of chemicals of concern in soils on the property must meet the generic direct-contact soil standards for the

chemicals specified in this subparagraph listed in table III of this rule for the industrial land use category, or table IV of this rule for construction and excavation activities. In addition, the concentrations of total petroleum hydrocarbons in the soils on the property must not exceed the residual saturation concentration listed in table I of this rule for the property-specific soil type and the lightest petroleum fraction present on the property.

- (e) Soil saturation concentrations of total petroleum hydrocarbons must be determined for the industrial land use category by determining the vertical hydraulic conductivity of the unsaturated soil and applying the residual saturation concentration contained in table I of this rule corresponding to the property-specific petroleum fraction. The residual saturation concentrations contained in table I of this rule are based on residual soil saturation with additional consideration for the toxicity of the uncharacterized portion of total petroleum hydrocarbon.

[Comment: For example, if the source of petroleum contamination is from a light petroleum fraction, such as gasoline, and the soils on the property are determined to have a vertical hydraulic conductivity (K_v) of 10^{-3} cm/s then, in addition to meeting the industrial generic direct-contact soil standards for benzene, ethylbenzene, toluene, total xylenes and *n*-hexane, the total petroleum hydrocarbon concentration must not exceed one thousand mg/kg.]

Table I: Total Petroleum Hydrocarbon Soil Saturation Concentration (values are in mg/kg).

Petroleum Fraction	Residual Saturation Concentrations for: Sand and Gravel; Unknown Soil Type	Residual Saturation Concentrations for: Silty/Clayey Sand	Residual Saturation Concentrations for: Glacial Till and Silty Clay
	K_v : 10^{-3} - 10^{-4} cm/s	K_v : 10^{-4} - 10^{-5} cm/s	K_v : $< 10^{-5}$ cm/s
Light (C_4 - C_{12})	1,000	5,000	8,000
Middle (C_7 - C_{16})	2,000	10,000	20,000
Heavy (C_{16} - C_{32})	5,000	20,000	40,000

Where: "mg/kg" means milligrams per kilogram, " K_v " means vertical hydraulic conductivity of the unsaturated soil, "cm/s" means centimeters per second, and " C_x " means carbon chain length.

(b) Table II: Generic Direct-Contact Soil Standards for Carcinogenic and Noncarcinogenic Chemicals of Concern - Residential Land Use Category (values are in mg/kg)*.

CHEMICAL OF CONCERN	STANDARD FOR SINGLE CHEMICAL NONCARCINOGENS	STANDARD FOR SINGLE CHEMICAL CARCINOGENS	SOIL SATURATION**	GENERIC DIRECT CONTACT STANDARD FOR A SINGLE CHEMICAL
VOLATILE ORGANIC CHEMICALS				
Acetone	7,300.00	NA	100,000.00	7,300.00
Benzene	9.80	67.00	900.00	9.80
Carbon Disulfide	350.00	NA	720.00	350.00
Carbon Tetrachloride	1.70	7.00	990.00	1.70
Chlorobenzene	150.00	NA	690.00	150.00
Chloroethane	8,800.00	NA	NA	8,800.00
Chloroform	110.00	7.30	3,500.00	7.30
Dibromochloromethane	1,500.00	130.00	1,300.00	130.00
Dichlorodifluoromethane	120.00	NA	850.00	120.00
Dichloroethane, 1,1 -	580.00	NA	2,300.00	580.00
Dichloroethane, 1,2 -	1,700.00	10.00	2,900.00	10.00
Dichloroethene, 1,1 -	680.00	1.60	1,600.00	1.60
Dichloroethene, cis - 1,2	760.00	NA	1,200.00	760.00
Dichloroethene, trans - 1,2 -	1,500.00	NA	2,500.00	1,500.00
Dichloropropane, 1,2 -	6.40	160.00	1,100.00	6.40
Dichloropropene, 1,3 -	13.00	19.00	1,000.00	13.00
Dioxane, 1,4 -	NA	980.00	200,000.00	980.00
Ethyl Ether	15,000.00	NA	NA	15,000.00
Ethylbenzene	1,500.00	NA	230.00	230.00
Formaldehyde	15,000.00	1,000,000.00	NA	15,000.00
Formic acid	150,000.00	NA	NA	150,000.00
Hexane, n -	71.00	NA	180.00	71.00
Isobutyl Alcohol	22,000.00	NA	25,000.00	22,000.00
Methanol	38,000.00	NA	NA	38,000.00
Methyl Ethyl Ketone	6,700.00	NA	97,000.00	6,700.00
Methyl Isobutyl Ketone	700.00	NA	16,000.00	700.00
Methyl tert- Butyl Ether	5,300.00	NA	7,200.00	5,300.00
Methylene Chloride	1,900.00	250.00	2,300.00	250.00
Styrene	4,600.00	NA	1,700.00	1,700.00
Tetrachloroethane, 1,1,1,2 -	2,300.00	95.00	2,800.00	95.00
Tetrachloroethane, 1,1,2,2 -	4,500.00	11.00	1,700.00	11.00
Tetrachloroethene	260.00	130.00	370.00	130.00
Toluene	590.00	NA	520.00	520.00
Trichloroethane, 1,1,1 -	990.00	NA	1,400.00	990.00
Trichloroethane, 1,1,2 -	300.00	24.00	2,500.00	24.00
Trichloroethene	450.00	80.00	800.00	80.00
Trichlorofluoromethane	490.00	NA	2,000.00	490.00
Trichloropropane, 1,2,3 -	450.00	1.50	1,000.00	1.50
Vinyl Acetate	410.00	NA	2,700.00	410.00

CHEMICAL OF CONCERN	STANDARD FOR SINGLE CHEMICAL NONCARCINOGENS	STANDARD FOR SINGLE CHEMICAL CARCINOGENS	SOIL SATURATION**	GENERIC DIRECT CONTACT STANDARD FOR A SINGLE CHEMICAL
Vinyl Chloride	38 00	3 70	1,200.00	3 70
Xylenes, Total	660 00	NA	160.00	160.00
SEMI-VOLATILE ORGANIC COMPOUNDS				
Acenaphthene	4,600.00	NA	NA	4,600 00
Acetophenone	7,600.00	NA	NA	7,600.00
Acrylonitrile	4 30	3 70	7,800.00	3 70
Aniline	5 80	1,900 00	9,300 00	5 80
Anthracene	23,000.00	NA	NA	23,000.00
Benzidine	230.00	0.05	NA	0.05
Benzo(a)anthracene	NA	11 00	NA	11.00
Benzo(a)pyrene	NA	1 10	NA	1.10
Benzo(b)fluoranthene	NA	11 00	NA	11 00
Benzo(k)fluoranthene	NA	110.00	NA	110.00
Bis (2-ethylhexyl) Phthalate	1,500 00	760.00	230 00	230 00
Butyl Benzyl Phthalate	15,000.00	NA	220.00	220.00
Carbazole	NA	530.00	NA	530 00
Chlordane	34 00	28.00	NA	28 00
Chrysene	NA	1,100 00	NA	1,100.00
Dibenz(a,h)anthracene	NA	1.10	NA	1.10
Dichlorobenzene, 1,2 -	150 00	NA	370.00	150 00
Dichlorobenzene, 1,3 -	68 00	NA	240 00	68.00
Dichlorobenzene, 1,4 -	1,600.00	95 00	NA	95 00
Dichlorobenzidine, 3,3 -	NA	24.00	NA	24.00
Dichlorodiphenyldichloroethane (DDD)	NA	41.00	NA	41.00
Dichlorodiphenyldichloroethene (DDE)	NA	29 00	NA	29 00
Dichlorodiphenyltrichloroethane (DDT)	35.00	29.00	NA	29.00
Dichlorophenoxyacetic acid, 2,4 -	760 00	NA	NA	760 00
Diethyl Phthalate	61,000.00	NA	640 00	640.00
Dimethylphenol, 2,4 -	1,500.00	NA	NA	1,500.00
Di-n-butyl Phthalate	7,600 00	NA	100.00	100.00
Dinitrobenzene, meta -	7.60	NA	NA	7.60
Dinitrobenzene, ortho -	31.00	NA	NA	31.00
Dinitrotoluene, 2,4 -	150.00	NA	NA	150 00
Dinitrotoluene, 2,6 -	76 00	NA	NA	76.00
Endrin	23 00	NA	NA	23 00
Ethylene Glycol	150,000.00	NA	120,000 00	120,000.00
Fluoranthene	2,300.00	NA	NA	2,300 00
Fluorene	3,100.00	NA	NA	3,100 00
Heptachlor	39 00	2 60	NA	2.50
Heptachlor Epoxide	1.00	1 20	NA	1.00
Hexachloro- 1,3 - Butadiene	15 00	140.00	1,000.00	15 00
Hexachlorobenzene	62 00	6.90	NA	6.90

CHEMICAL OF CONCERN	STANDARD FOR SINGLE CHEMICAL NONCARCINOGENS	STANDARD FOR SINGLE CHEMICAL CARCINOGENS	SOIL SATURATION**	GENERIC DIRECT CONTACT STANDARD FOR A SINGLE CHEMICAL
Hexachloroethane	77.00	790.00	NA	77.00
Indeno(1,2,3-c,d)pyrene	NA	11.00	NA	11.00
Isophorone	15,000.00	12,000.00	4,600.00	4,600.00
Isopropylbenzene (Cumene)	1,800.00	NA	860.00	860.00
Lindane	21.00	7.60	NA	7.60
m-cresol	3,900.00	NA	NA	3,900.00
Methoxychlor	390.00	NA	NA	390.00
Methylnaphthalene, 1 -	5,400.00	NA	120.00	120.00
Naphthalene	54.00	NA	NA	54.00
Nitrobenzene	23.00	NA	1,700.00	23.00
Nitrosodiphenylamine, n -	NA	2,200.00	NA	2,200.00
o-cresol	390.00	NA	NA	390.00
Octyl Phthalate, di(n) -	1,500.00	NA	10,000.00	1,500.00
p-cresol	390.00	NA	8,500.00	390.00
Pentachlorophenol	1,300.00	51.00	NA	51.00
Phenol	46,000.00	NA	NA	46,000.00
Polychlorinated Biphenyls	1.10	3.80	NA	1.10
Pyrene	1,700.00	NA	NA	1,700.00
Pyridine	77.00	NA	300,000.00	77.00
Silvex (2,4,5 TP)	620.00	NA	NA	620.00
Toxaphene	NA	10.00	NA	10.00
Trichlorophenol, 2,4,5 -	7,700.00	NA	NA	7,700.00
Trichlorophenol, 2,4,6 -	NA	1,000.00	NA	1,000.00
Trimethylbenzene, 1,2,4	22.00	NA	250.00	22.00
Trimethylbenzene, 1,3,5	19.00	NA	200.00	19.00
Trinitrobenzene, 1,3,5 -	2,300.00	NA	NA	2,300.00
INORGANIC COMPOUNDS				
Aluminum	75,000.00	NA	NA	75,000.00
Antimony	31.00	NA	NA	31.00
Arsenic, Inorganic	22.00	6.80	NA	6.80
Barium and Compounds	5,400.00	NA	NA	5,400.00
Beryllium and Compounds	150.00	33,000.00	NA	150.00
Cadmium	35.00	44,000.00	NA	35.00
Chromium (III)	120,000.00	NA	NA	120,000.00
Chromium (VI)	230.00	6,600.00	NA	230.00
Cobalt	1,400.00	NA	NA	1,400.00
Cyanide, Free	1,600.00	NA	NA	1,600.00
Fluorides, Soluble	4,700.00	NA	NA	4,700.00
Mercury	7.80	NA	NA	7.80
Nickel (Soluble Salts)	1,500.00	NA	NA	1,500.00
Selenium and Compounds	390.00	NA	NA	390.00
Silver	390.00	NA	NA	390.00
Thallium	6.20	NA	NA	6.20
Vanadium	700.00	NA	NA	700.00
Zinc and Compounds	23,000.00	NA	NA	23,000.00

